



M C D - 1 0 0 0
S E R V I C E M A N U A L



The **Muzak MCD-1000** is a commercial quality CD player with a built-in 25 watt amplifier and equalizer module slot. It is designed for continuous play of specially encoded 4 hour stereo or 8 hour mono discs.

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ordering information

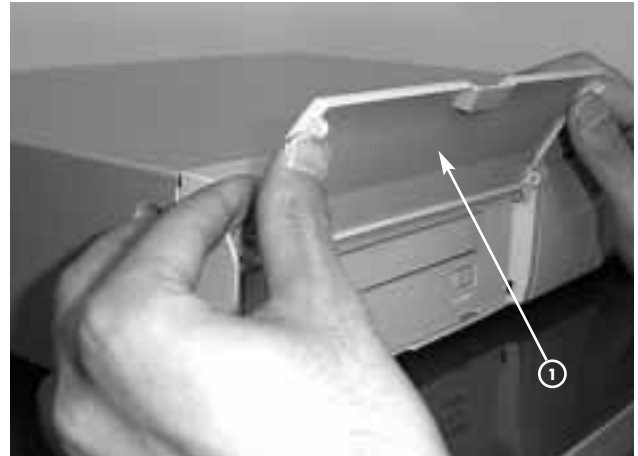
To order parts call 800 331.3340. State that you are ordering MCD-1000 parts. Please specify color when ordering front panel components.

specifications

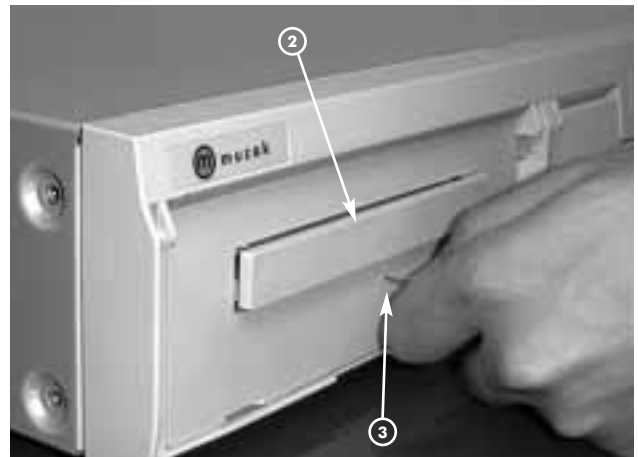
POWER SOURCE	120 V AC, 50/60 Hz
POWER CONSUMPTION	55 W at rated output
OUTPUT POWER	25 W RMS at 4 ohms or 70 volts
STEREO LINE OUTPUT	0 dBV (1 volt), +/- 3 dB @ 0dB on disc
MONO LINE OUTPUT	-6 dBV (0.5 volt), +/- 3 dB
AMP IN	0 dBV (50 k ohm)
DISTORTION	< 1% (1 kHz)
SIGNAL/NOISE RATIO	>70 dB
DISC DRIVE	Single disc, tray-type mechanism
DISC READING	Non-contact laser pickup
TRACK FORMAT	4 stereo tracks or 8 mono tracks
PLAYING TIME	1 hour/track
SIGNAL FORMAT	CDi/BGM format (4 bit ADPCM)
DATA	Mode 2, Form 1
AUDIO	Mode 2, Form 2 (level B)
SAMPLE RATE	37.8 kHz
REMOTE CONTROL	Momentary contact to ground
FINISH	Front panel injection mold
DIMENSIONS	16.53 in. W x 3.46 in. H x 12.72 in. D (420mmx88mmx323mm)
WEIGHT	15.41 lbs. (7 kg)
TEMPERATURE	32-113 deg. F (0-45 deg. C)
HUMIDITY	0-95% (no condensation)
PARTS INCLUDED	Operation/Installation Manual, spare fuse, eject stick & warranty registration card
SAFETY STANDARDS	UL, C/UL, CE
WARRANTY	12-months parts and labor from date of purchase

mechanism replacement procedure

Turn the door (1) upward and push the retained portion of the door downward to release the door from the retaining hinge of front panel.



Eject the tray (2) by inserting the eject stick (3) attached as an accessory.



Detach the tray mask (4) by pulling the center bottom out while lifting up.

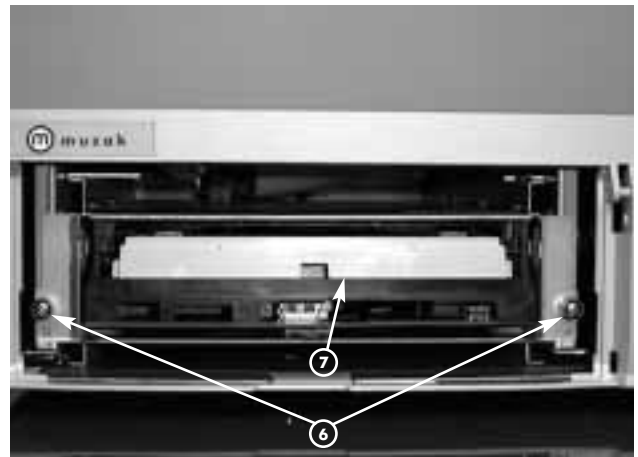
Push tray in manually.



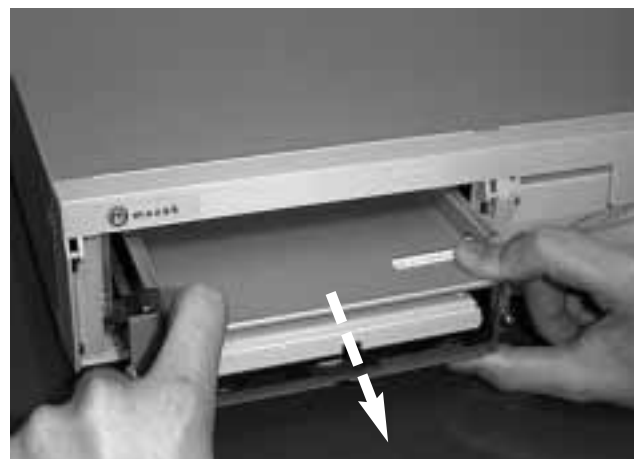
Insert a coin or similar object into the lower edge slot of the bezel (5) and lever the bezel forward with the coin to detach it.



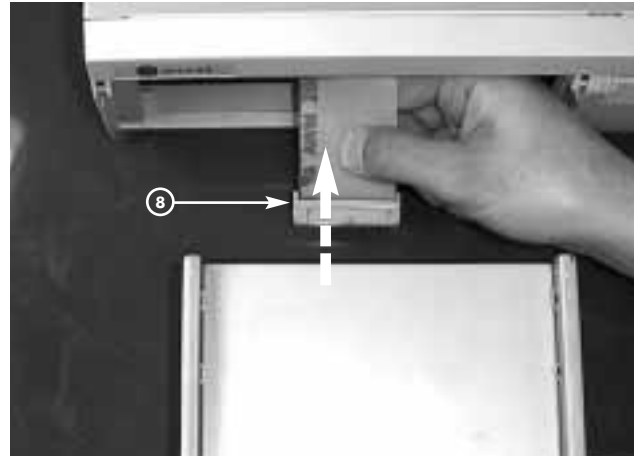
Remove two screws (6) securing the mechanism unit (7).



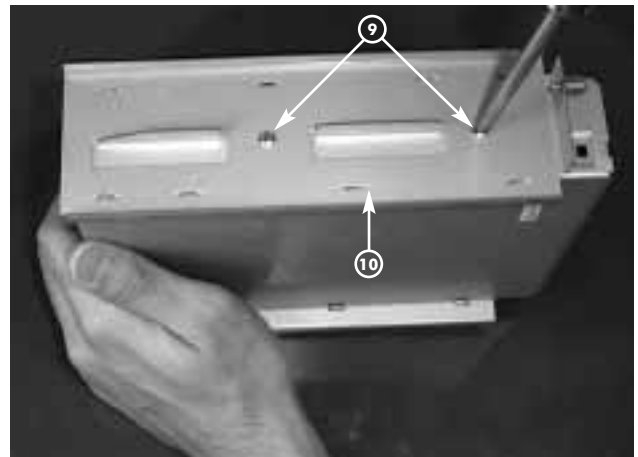
Pull the mechanism unit out forward.



Pull the connector (8) at the rear side of the mechanism unit and then detach the mechanism unit.

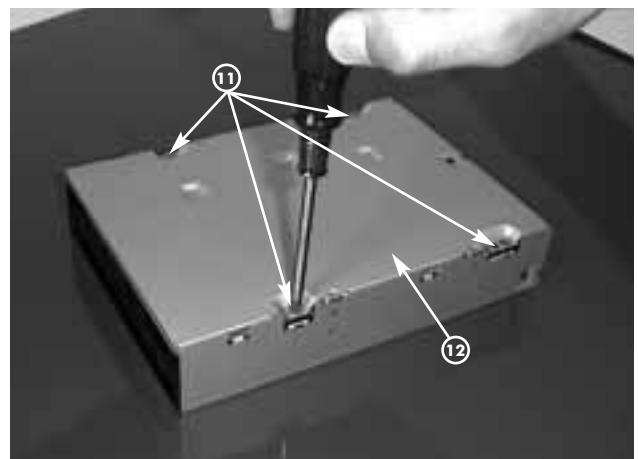


Remove the screws (9) and metal brackets (10) on both sides.



Turn the mechanism unit over, remove the screws (11) and the bottom plate (12).

Reverse the above procedure to reassemble.



laser diode test procedure

Measure the voltage across test points TP PICK and TP +5 of the MAIN PCB to obtain the laser diode current value in milliamps. When the voltage exceeds 1.29 VDC (60 mA through the parallel resistors R 201 and R 202), the laser pickup must be replaced.

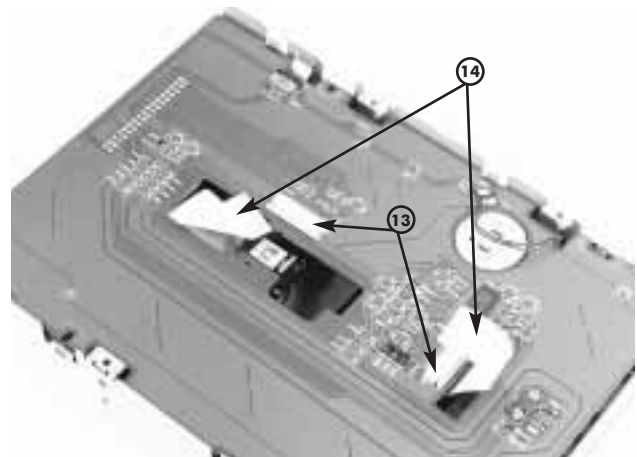
NOTE: This procedure only tests the laser diode. There may be mechanical servo problems with the laser pickup which can only be verified by replacement of the laser pickup assembly.



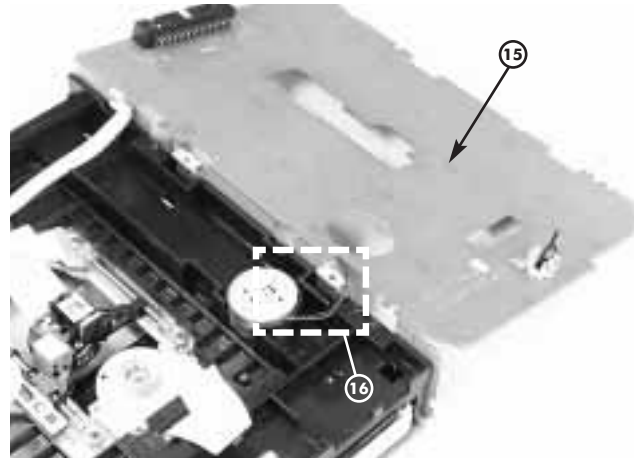
laser pickup replacement procedure

Unlock two connector tabs (13) and disconnect both flat flexible cables (FFC) (14).

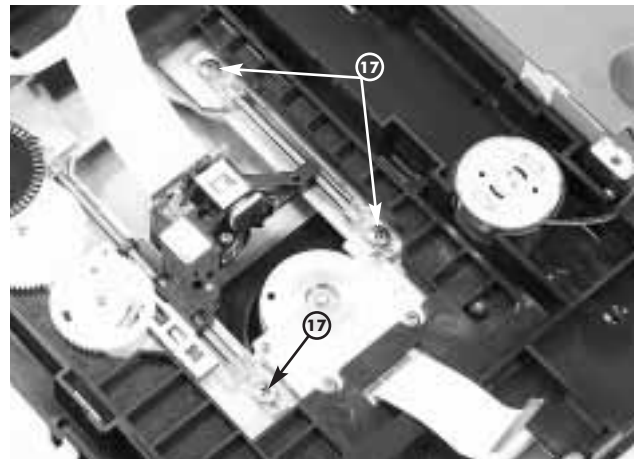
CAUTION: Do not attempt to disconnect the cables without unlocking the connector tabs or damage may result.



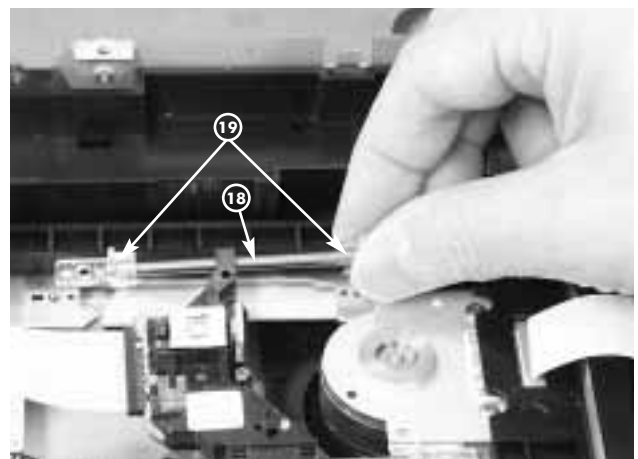
Turn the connect PCB (15) over while taking care not to pull the DC motor wires (16).



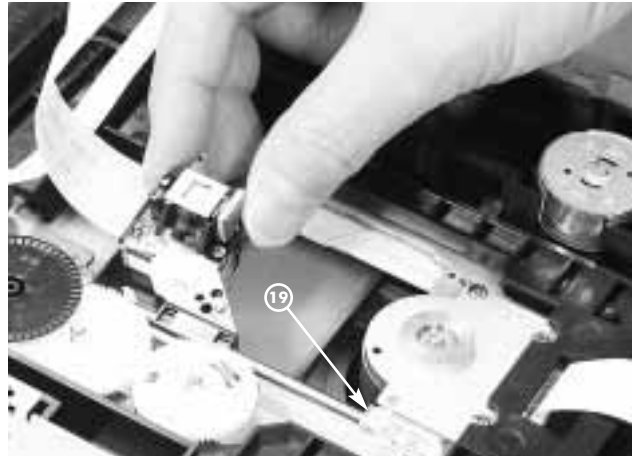
Remove two glued screws (17) on the captive guide shaft and one glued screw on the other side of the laser pickup.



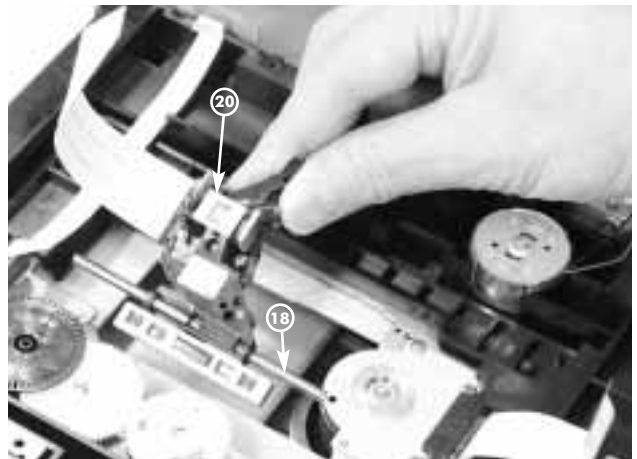
Remove the right shaft (18) and the two shaft holders (19).



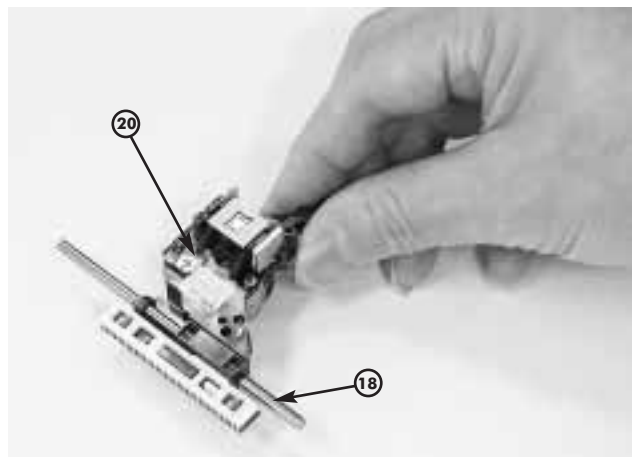
Remove the left shaft holder (19) in front of the rack gear of the pickup.



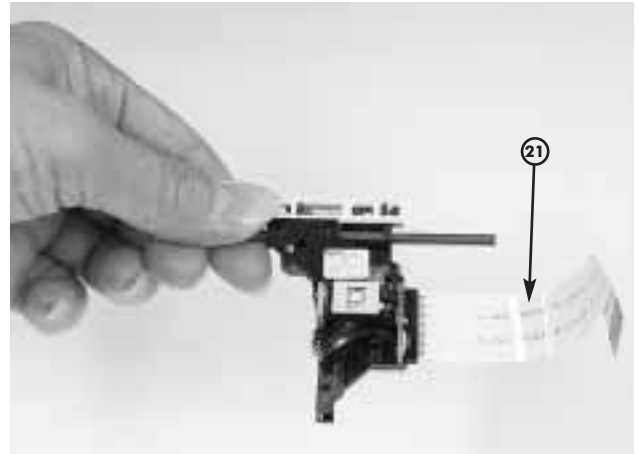
Detach the pickup (20) from the shaft (18) while holding the shaft.



Install the shaft (18) by putting it through the new pickup (20).

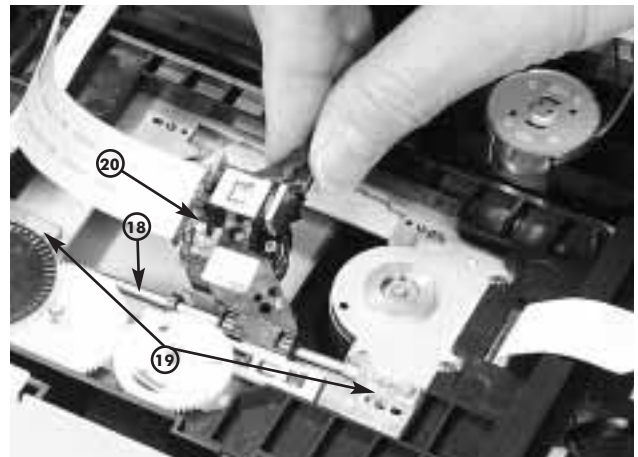


Insert the FFC (21) with printed side up into the pickup connector while taking care not to bend the FFC.

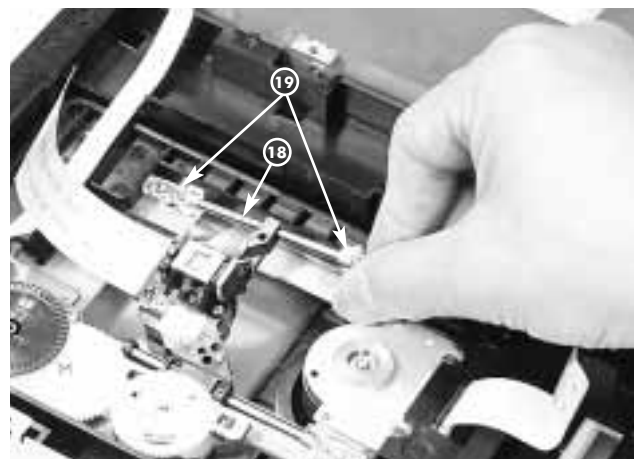


Install the pickup (20) while inserting the shaft (18) into the shaft holder (19) and then attaching the other shaft holder.

NOTE: Apply one drop of light Sankol mineral oil to each shaft if available.

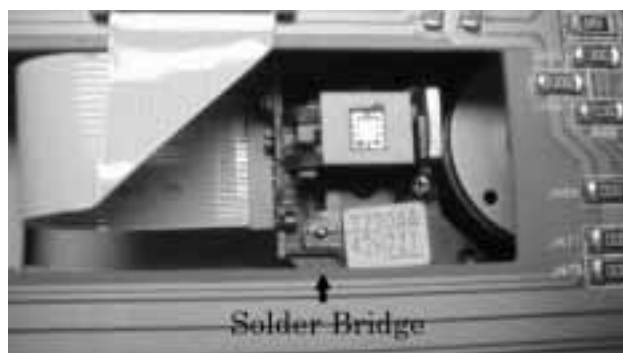
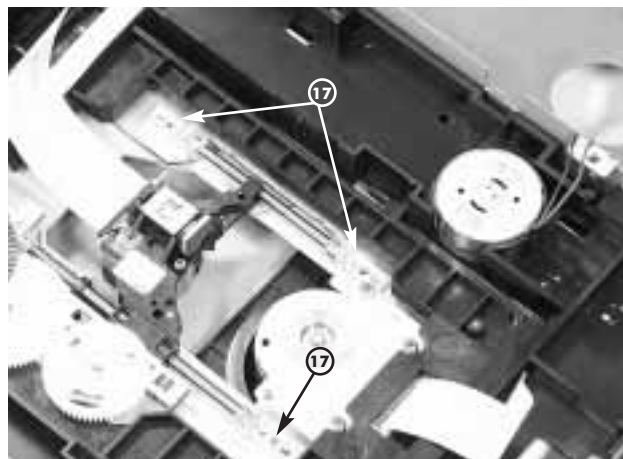


Install the shaft (18) and shaft holder (19).



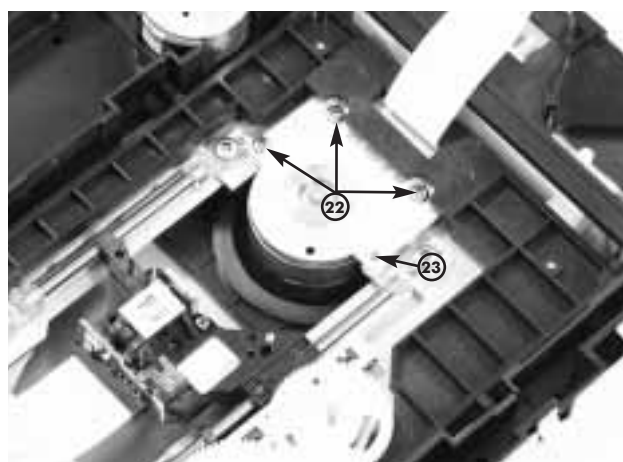
Tighten the three screws (17) to secure the pick-up and make sure the pickup moves smoothly. See above note regarding oil.

IMPORTANT NOTE: After replacement of the laser pickup, it is necessary to remove the solder bridge on the FFC. CAREFULLY remove the solder bridge with a low wattage soldering iron to break the short circuit.



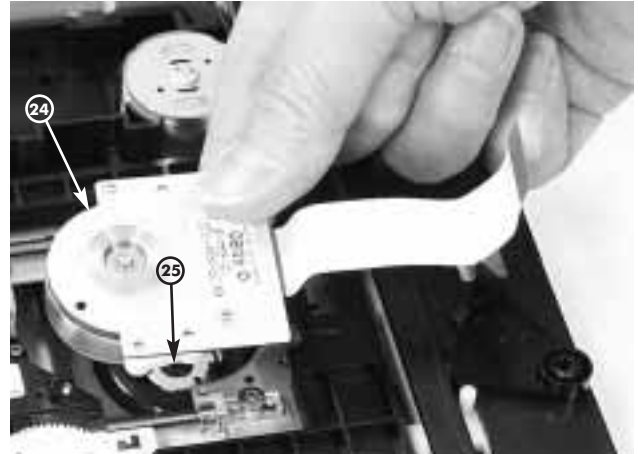
spindle motor replacement procedure

Remove the three 2mm mounting screws (22). Take note of the unused mounting hole (23).

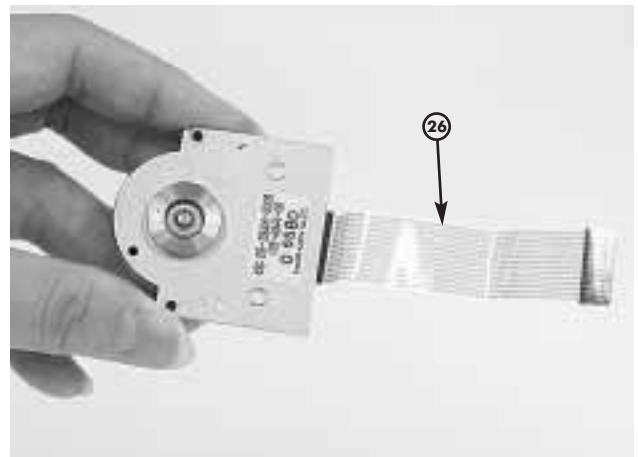


Remove the FFC by loosening the connector tabs. Detach the spindle motor (24) and the plastic spacer (25). Lift the spacer with the motor (the magnetic clamp will give some resistance).

NOTE: Do not take tray from metal cover or the magnetic clamp will fall out.

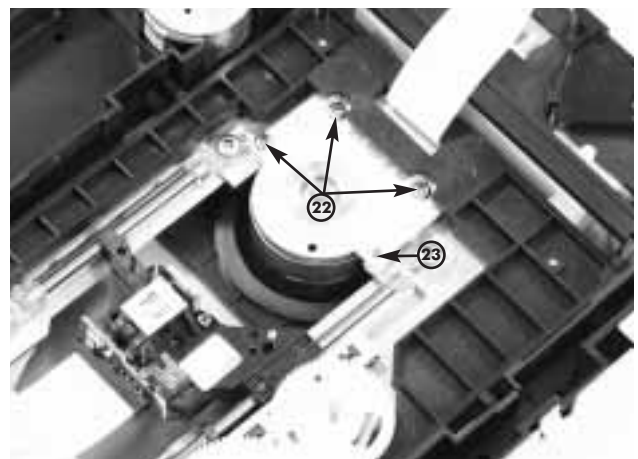


Insert FFC (26) into new spindle motor with blue insulation toward the motor label. Push connector tabs back to lock the cable.



Replace the three 2mm mounting screws (22).

NOTE: Do not place a screw in the unused mounting hole (23) or balance problems may result.



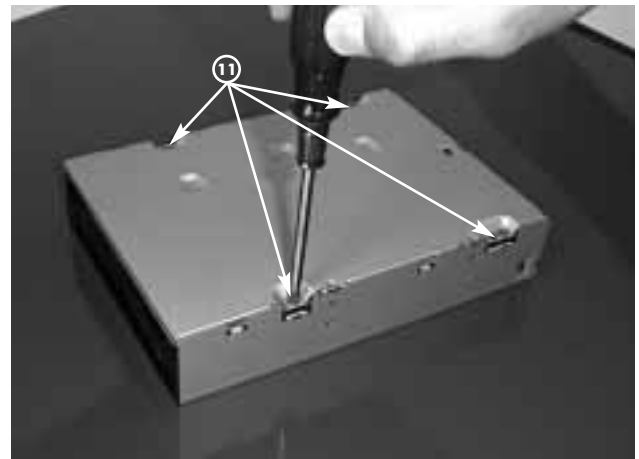
mechanism installation procedure after replacement of pickup and spindle motor

Replace the connect PCB (15). Adjust the DC motor wires (16) inside the wire slot. Take the FFC's (21, 26) out from each slot so that they are not pinched under the PCB.

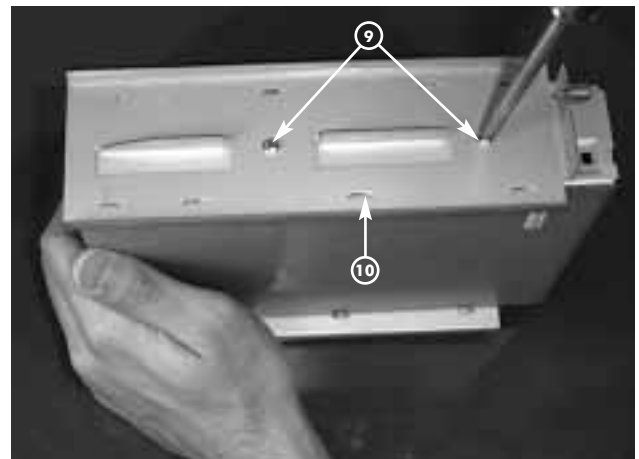
NOTE: If you have not already done so, carefully remove the solder bridge on the laser pickup at this time. See previous photo on page 9. If the FFC's are damaged, replace them with new ones.



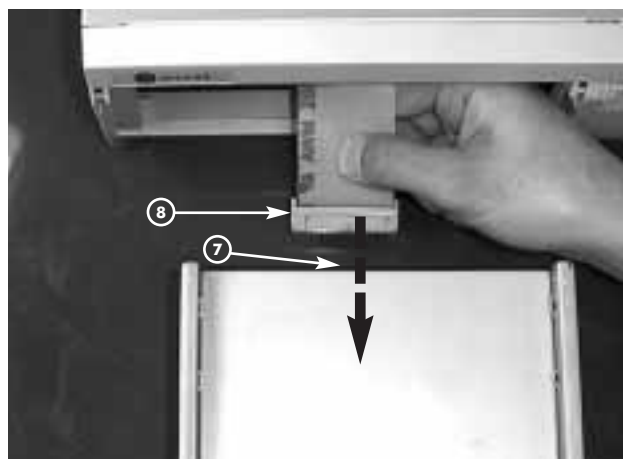
Refit the mechanism bottom plate with four screws (11).



Refit both metal side brackets (10) with two screws each (9).



Insert the keyed ribbon cable (8) into the mechanism connector (7).



Install the mechanism into the main chassis with two screws (6).



Mount the bezel (5).



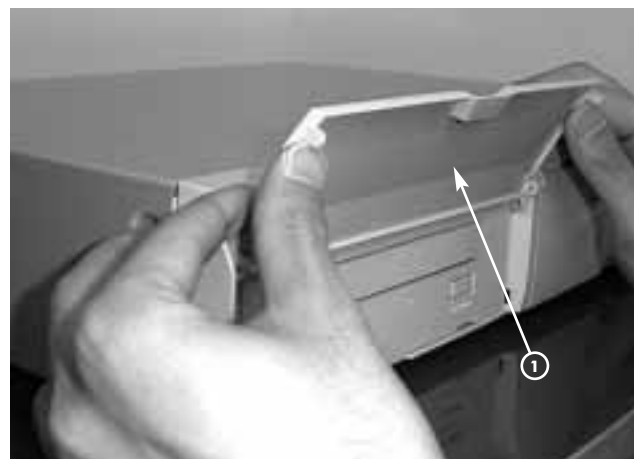
Eject the tray (2) with the eject stick (3).



Attach the tray mask (4) and manually close the tray.

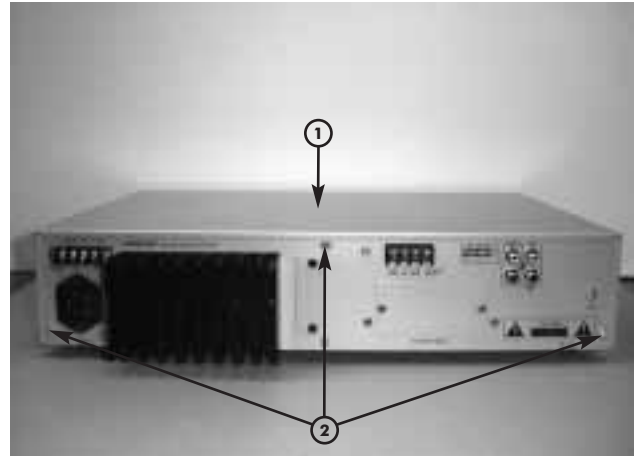


Mount the door (1).

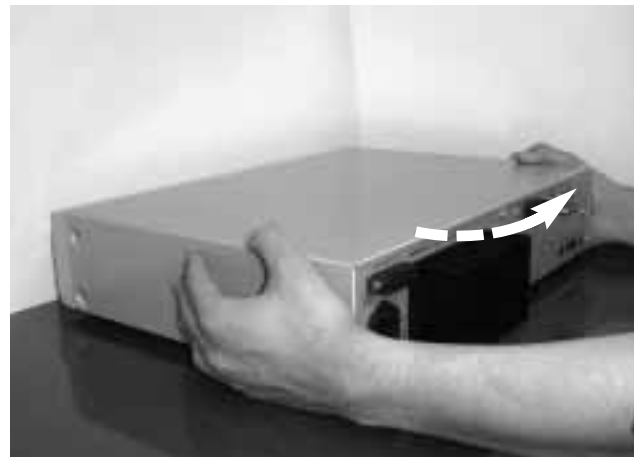


main PCB replacement procedure

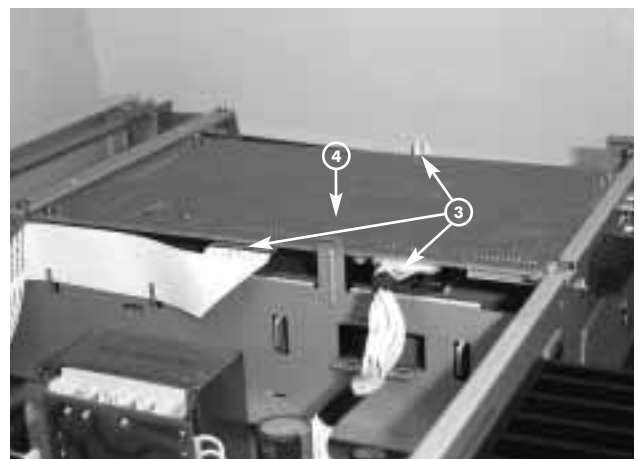
Remove the three screws (2) securing the top cover (1).



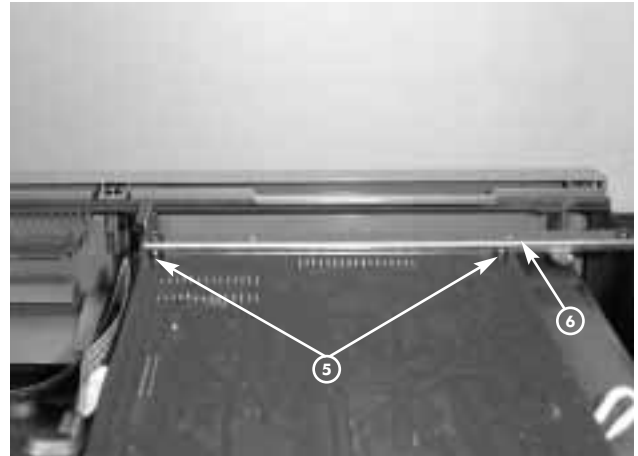
Remove the top cover while lifting up toward the rear panel as shown.



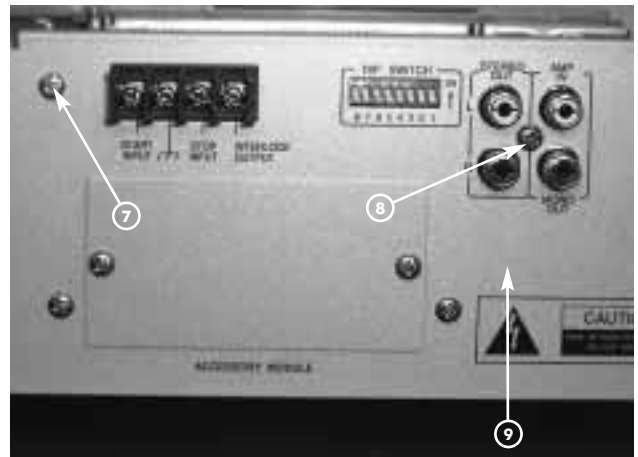
Disconnect the three cables (3) horizontally connected (two on one side and one on the other) to the main PCB (4).



Remove two screws (5) securing the main PCB with the PCB guide (6).

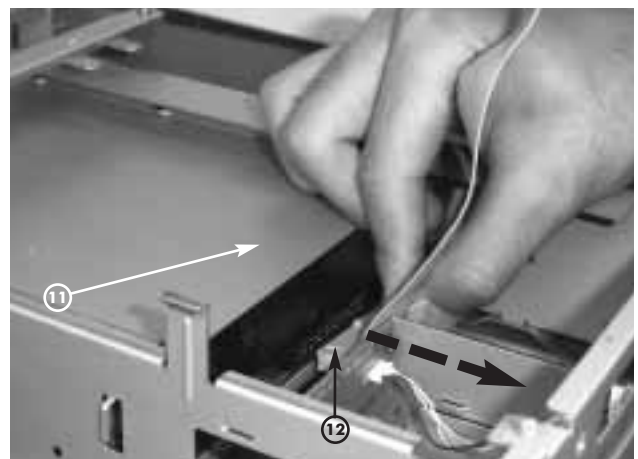


Remove one screw (7) and one silver screw (8) securing the main PCB to the rear panel (9).

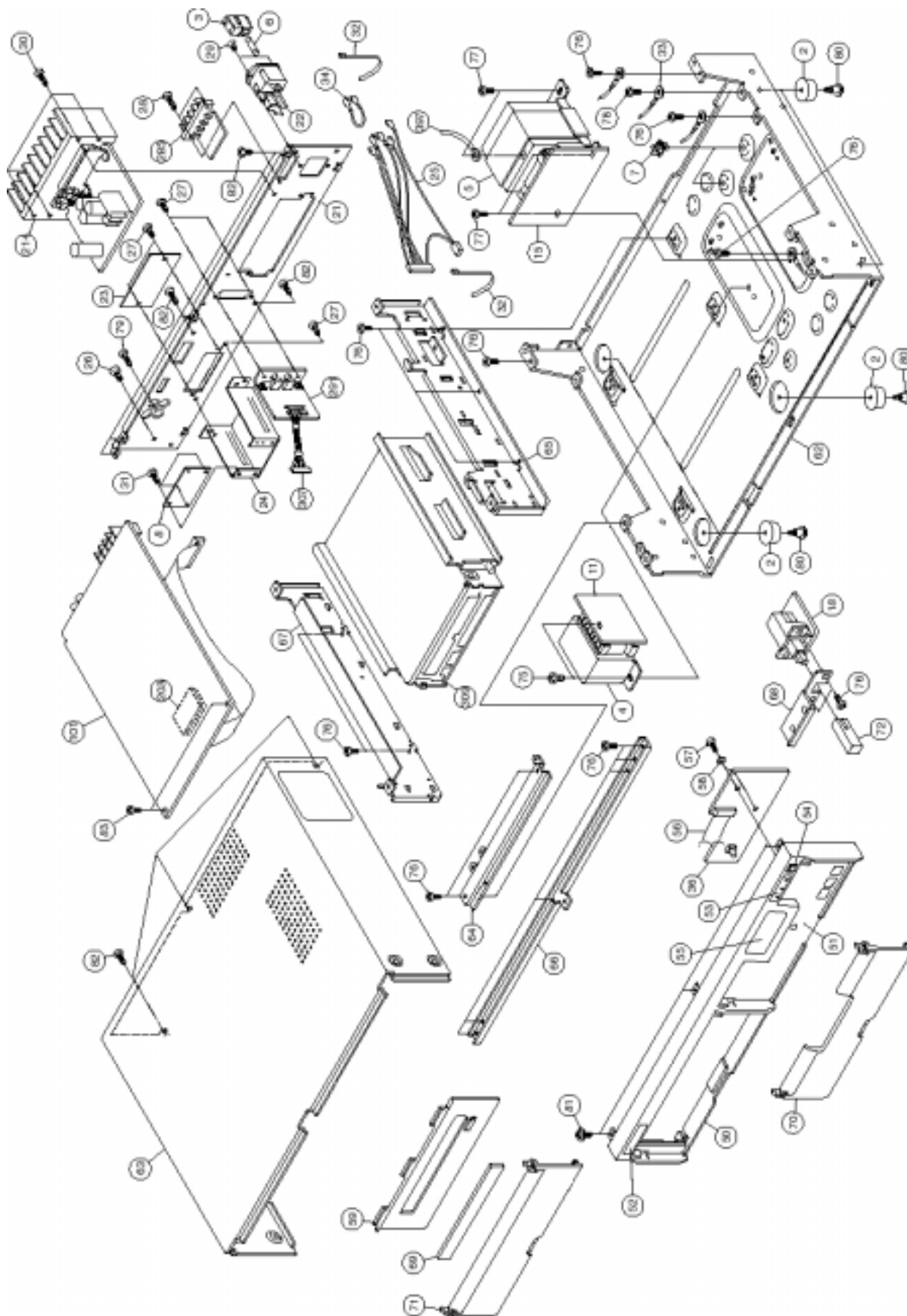


Unplug the keyed connector (12) running to the mechanism PCB while lifting the main PCB upper front (11).

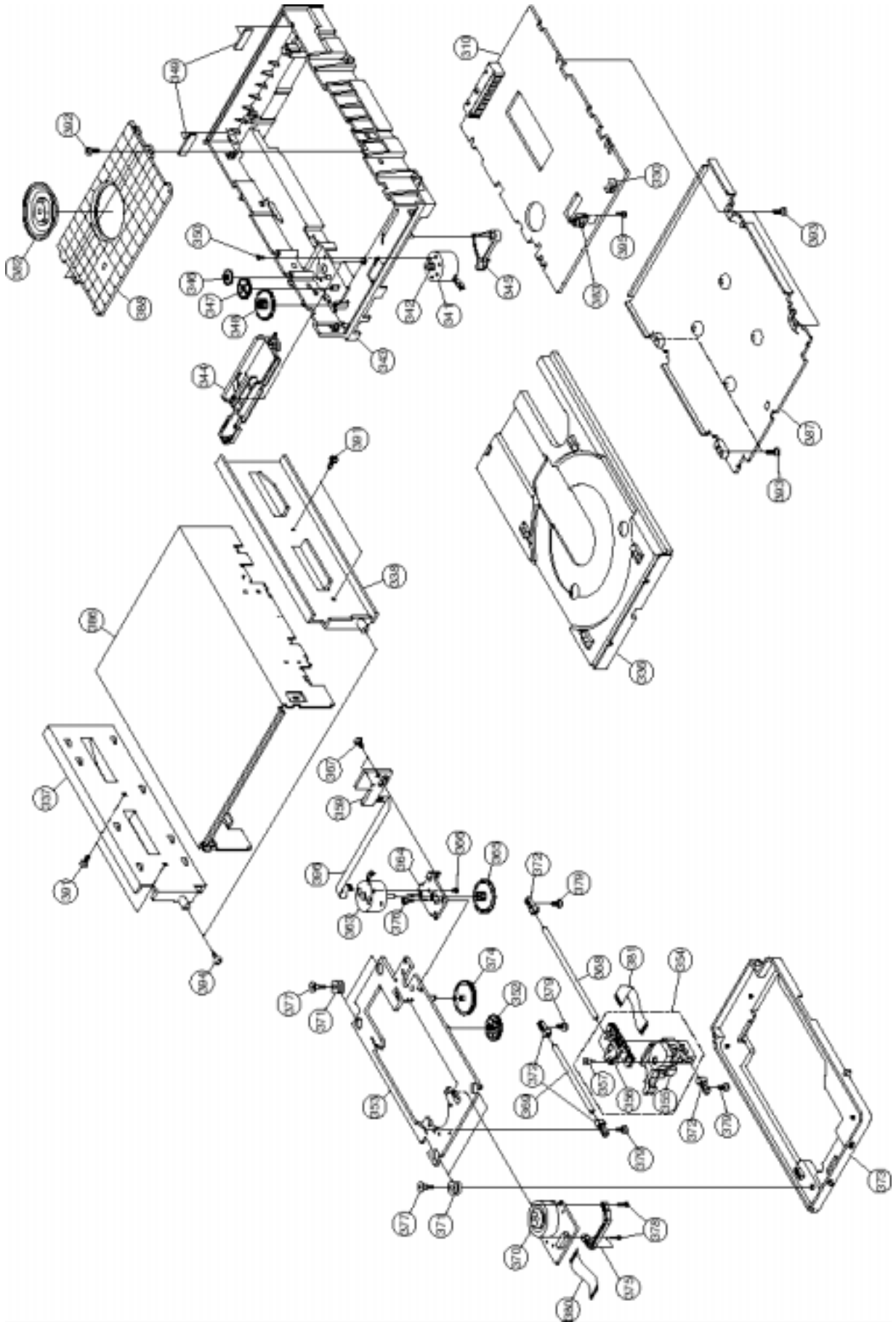
Reverse the above procedure to reassemble.



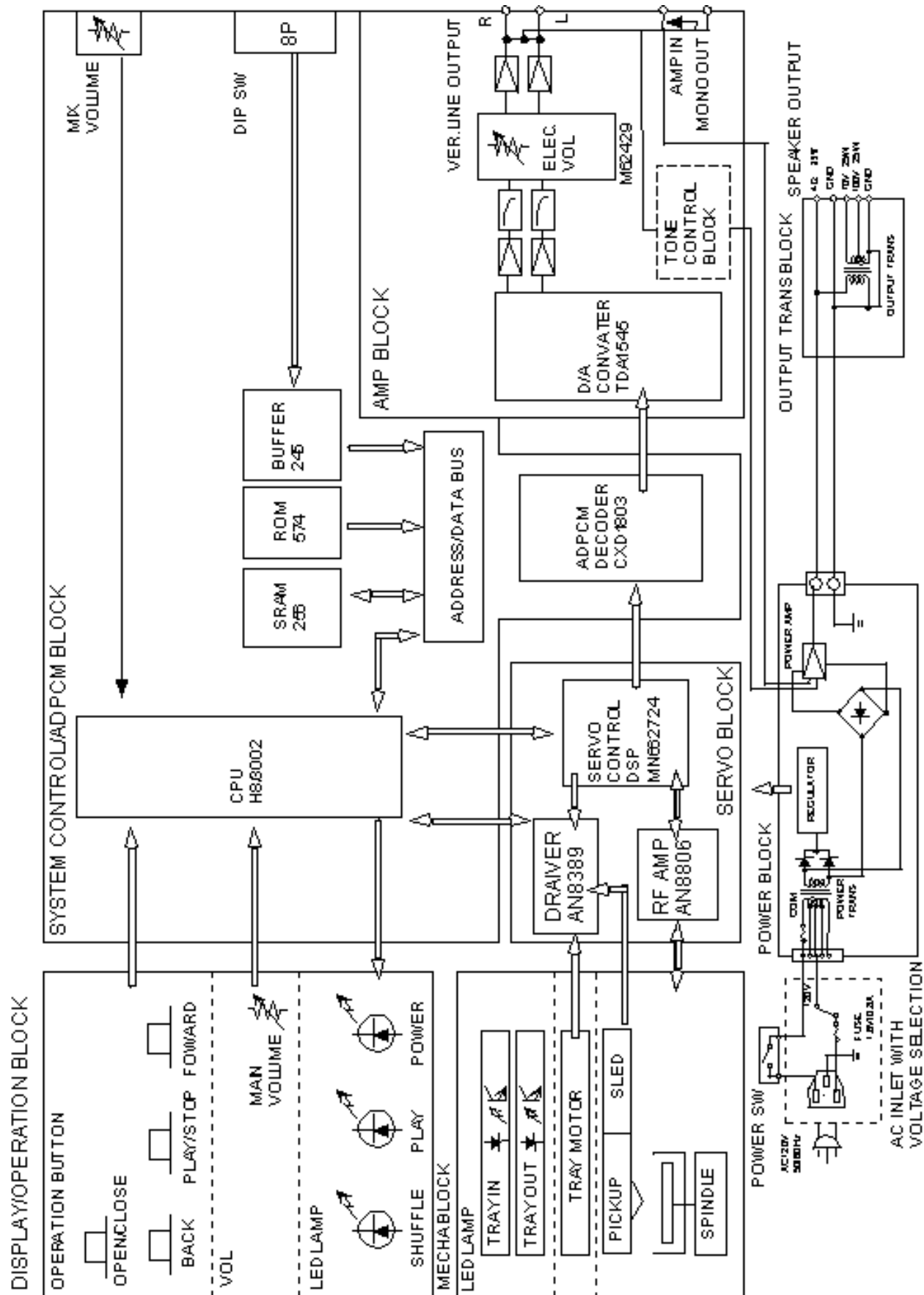
chassis assembly diagram



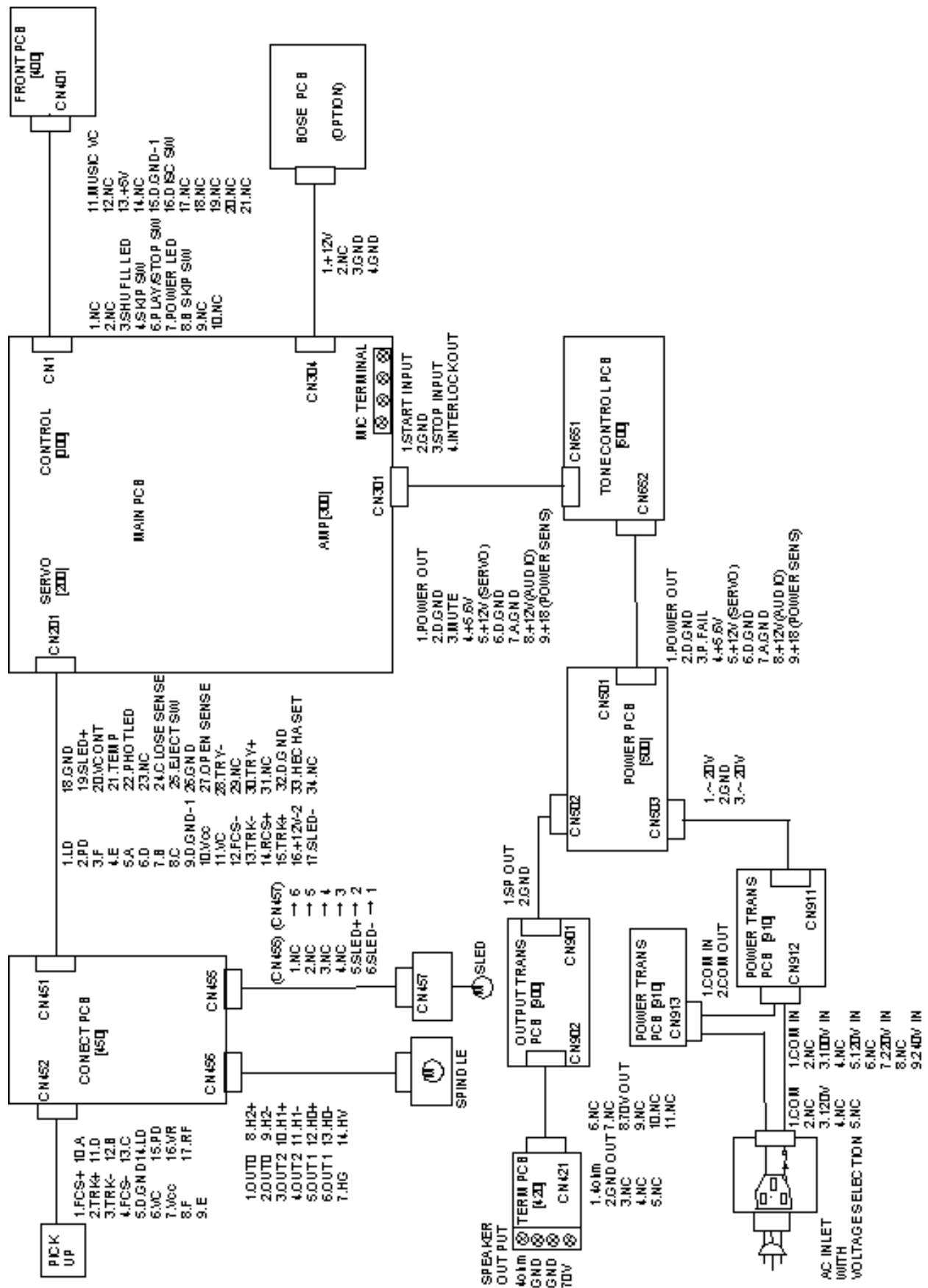
mechanism assembly diagram



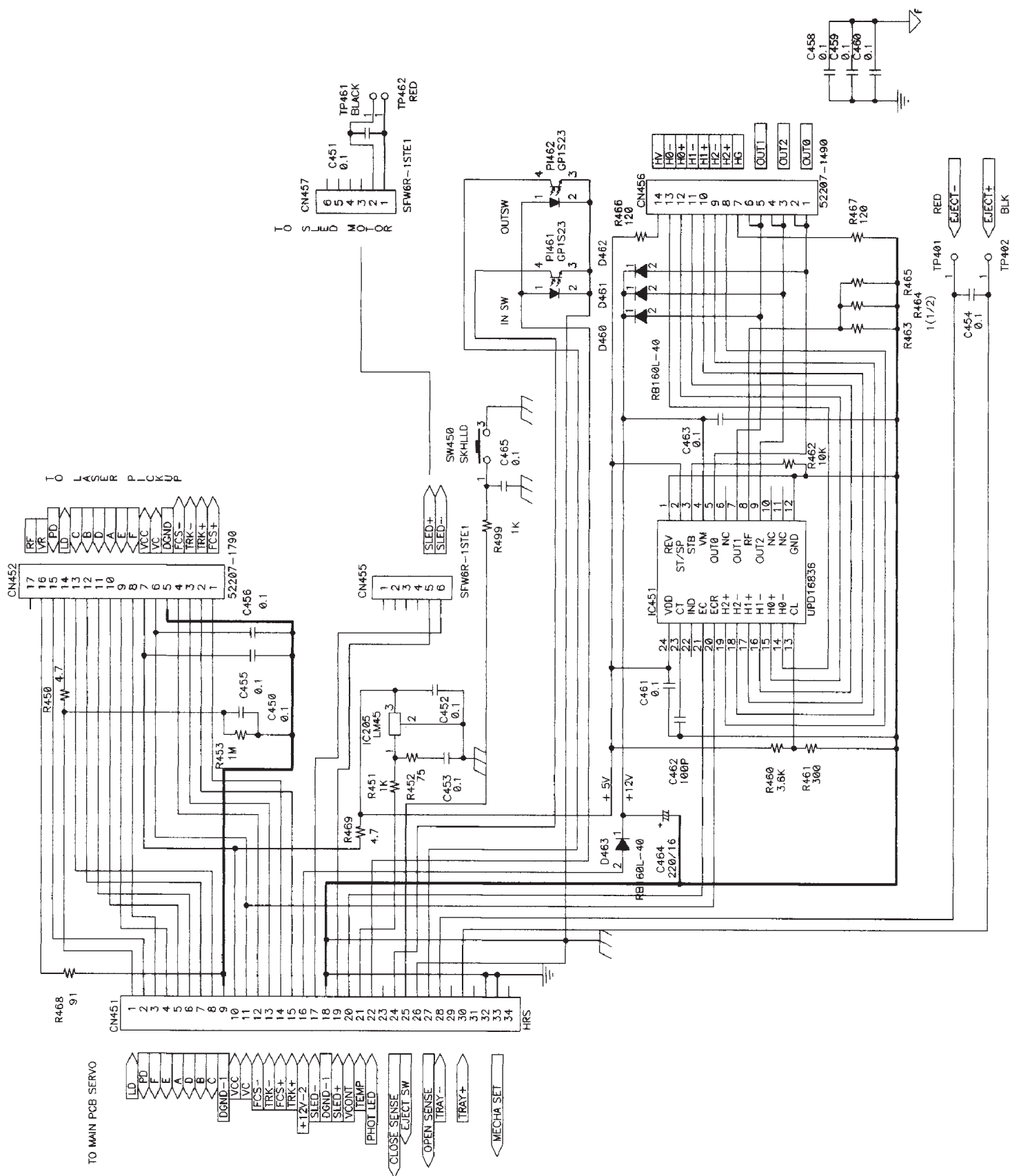
block diagram



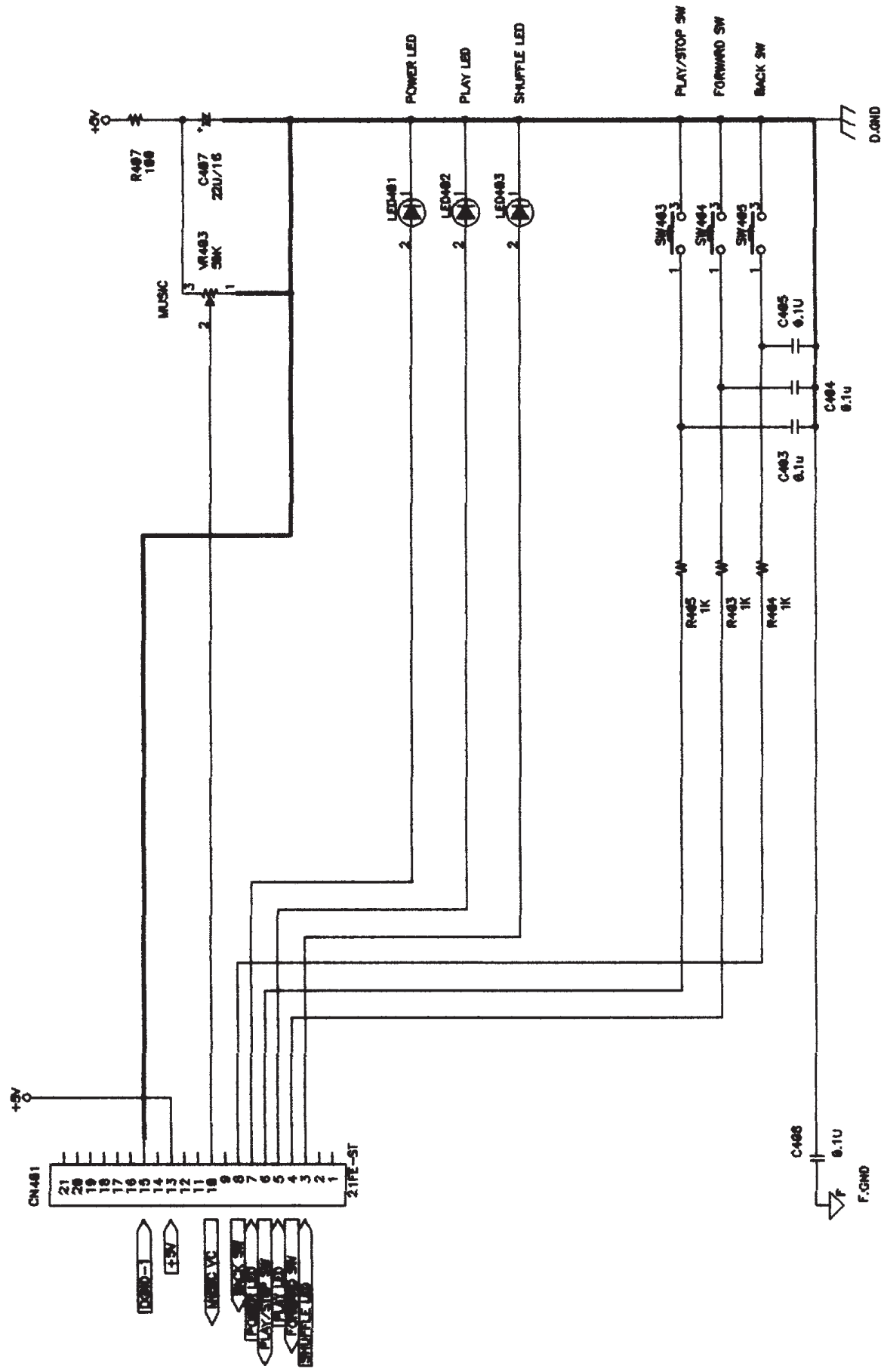
wiring diagram



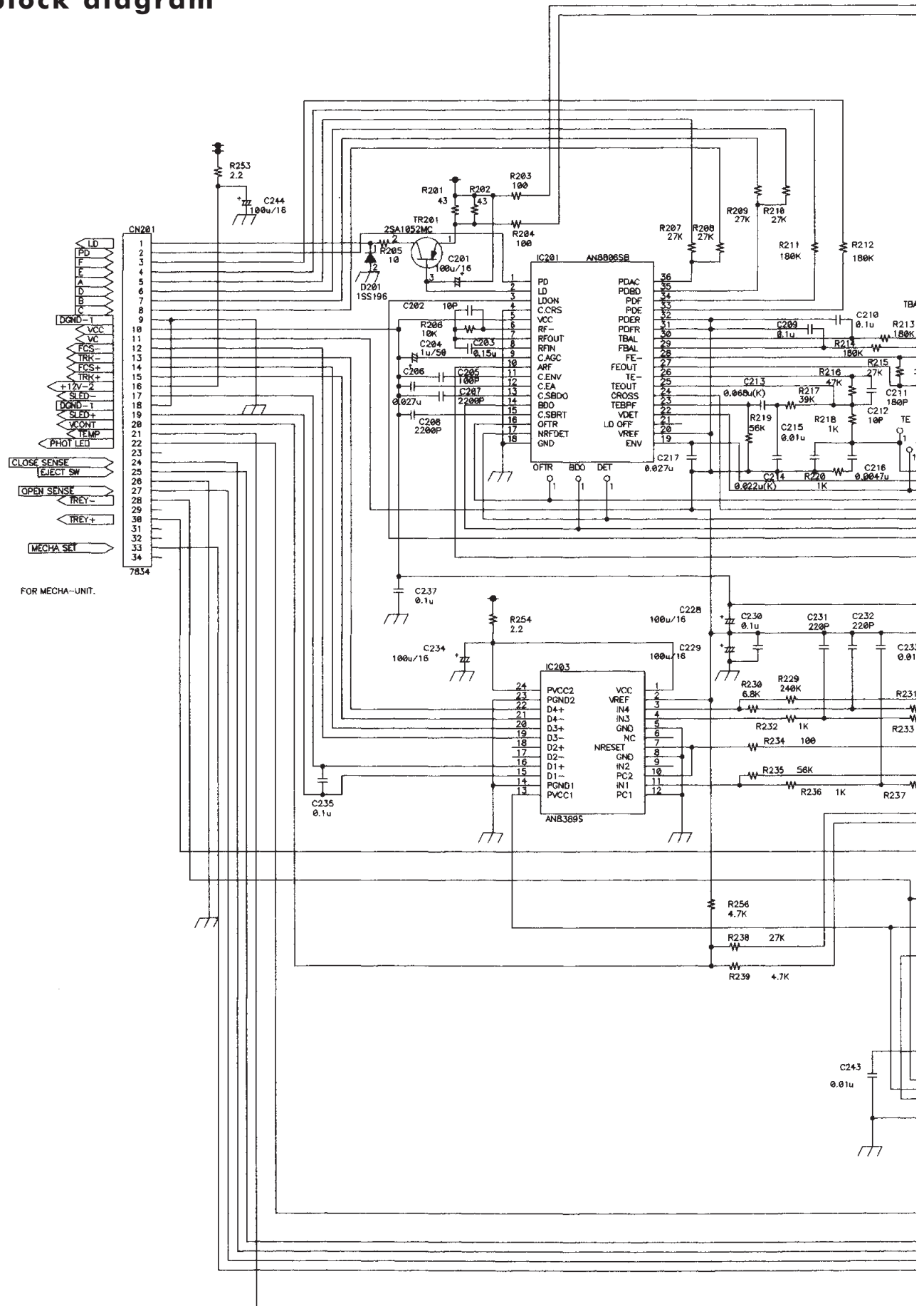
connect PCB diagram



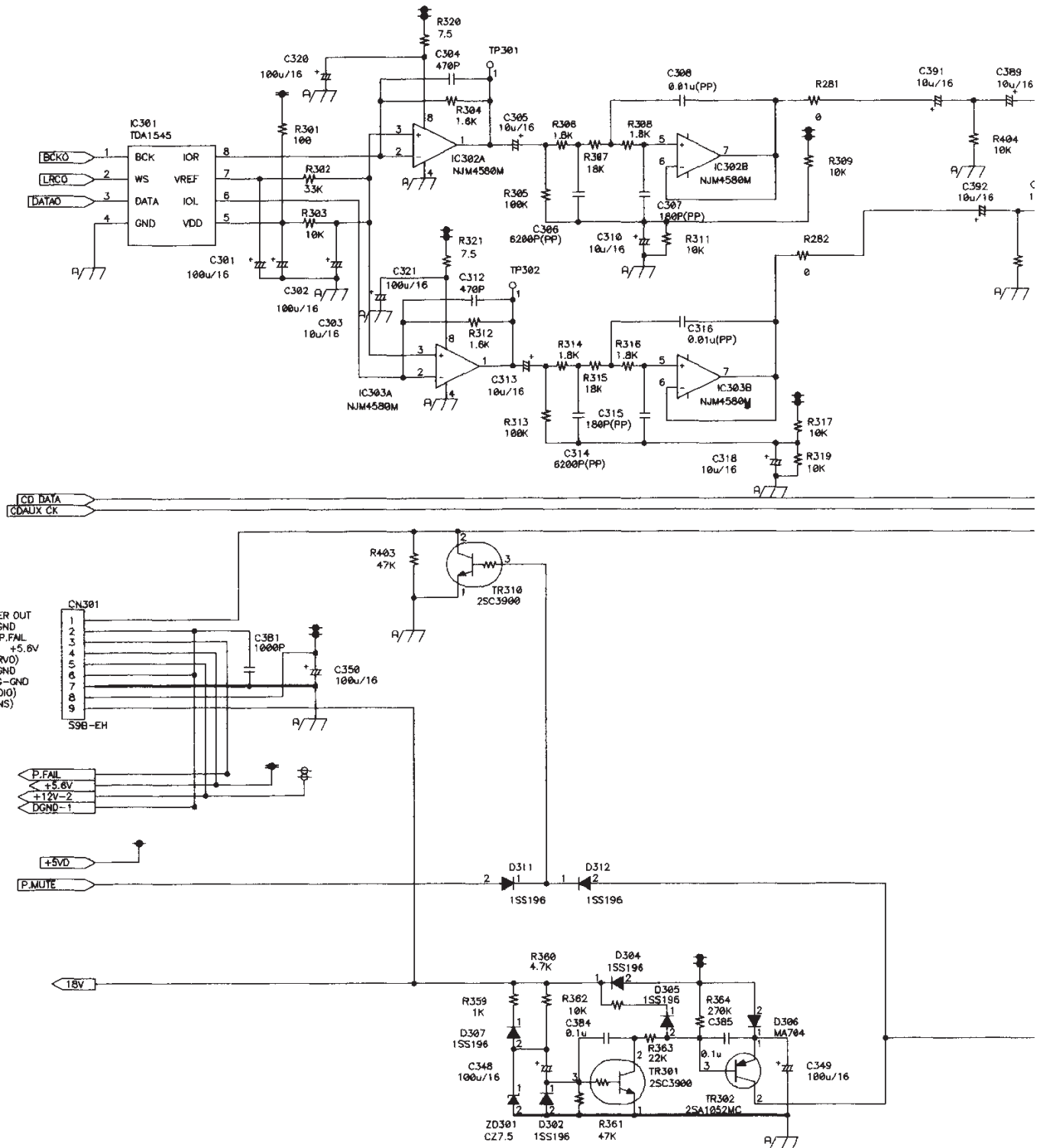
front PCB diagram

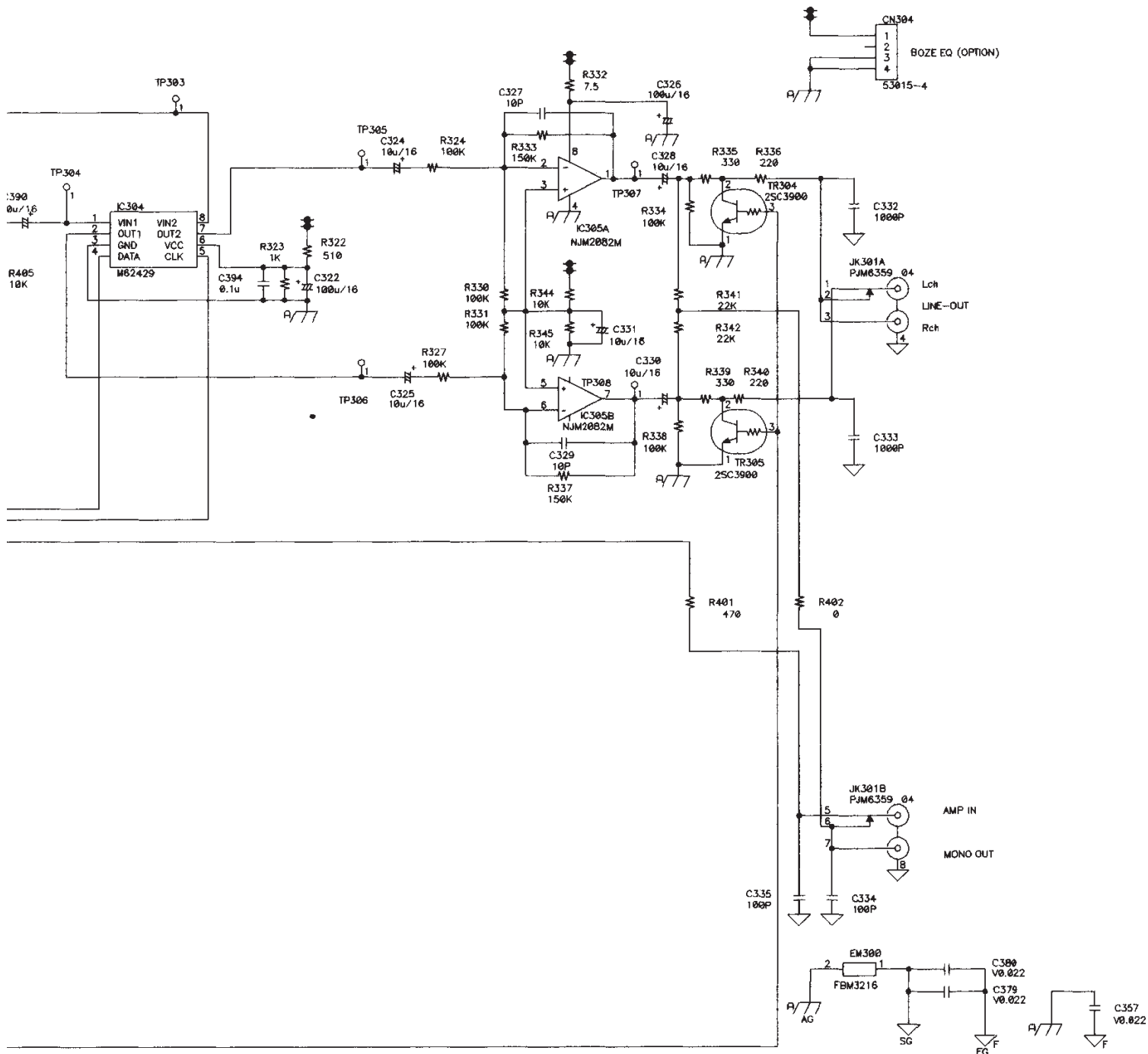


servo block diagram

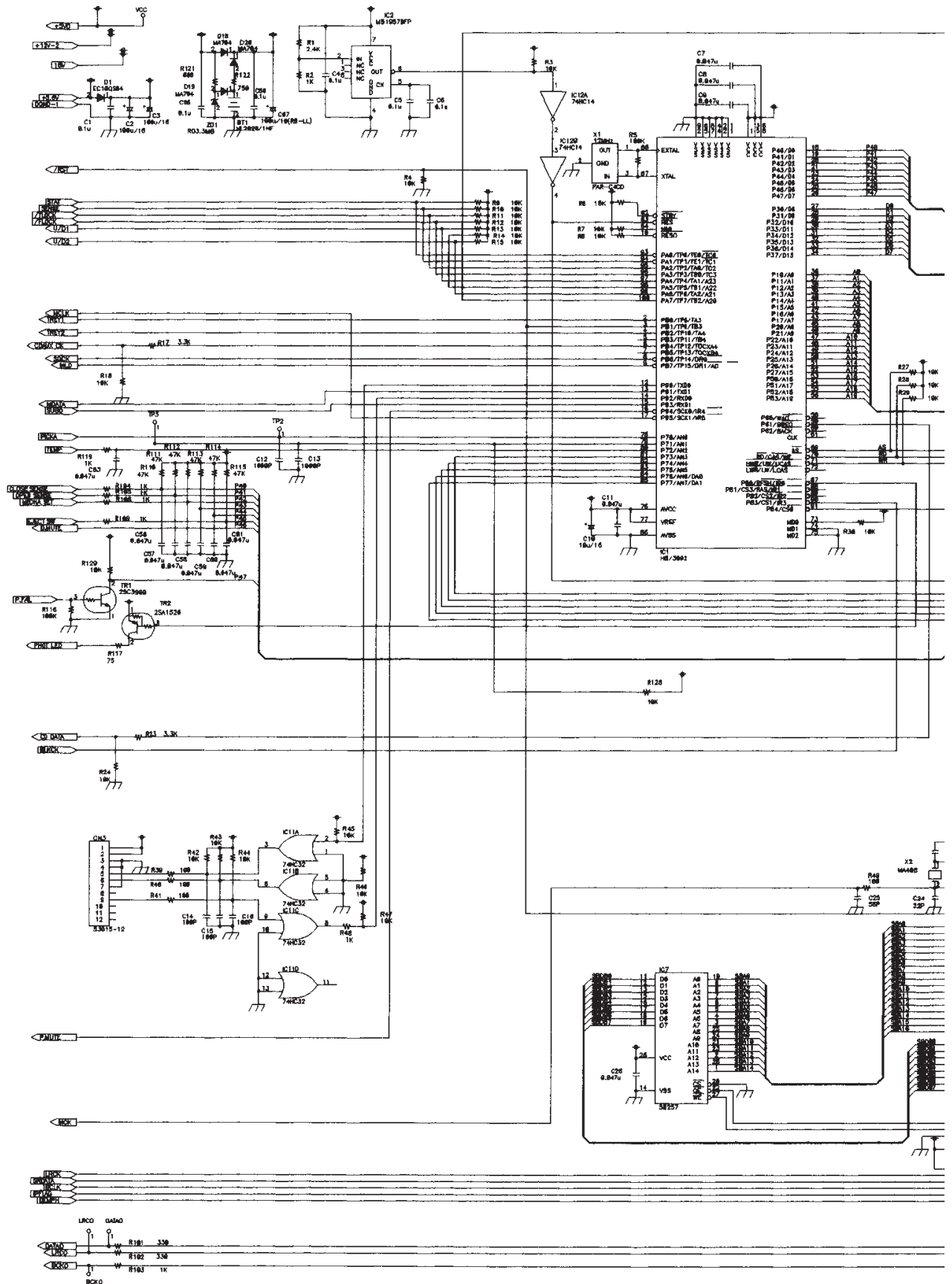


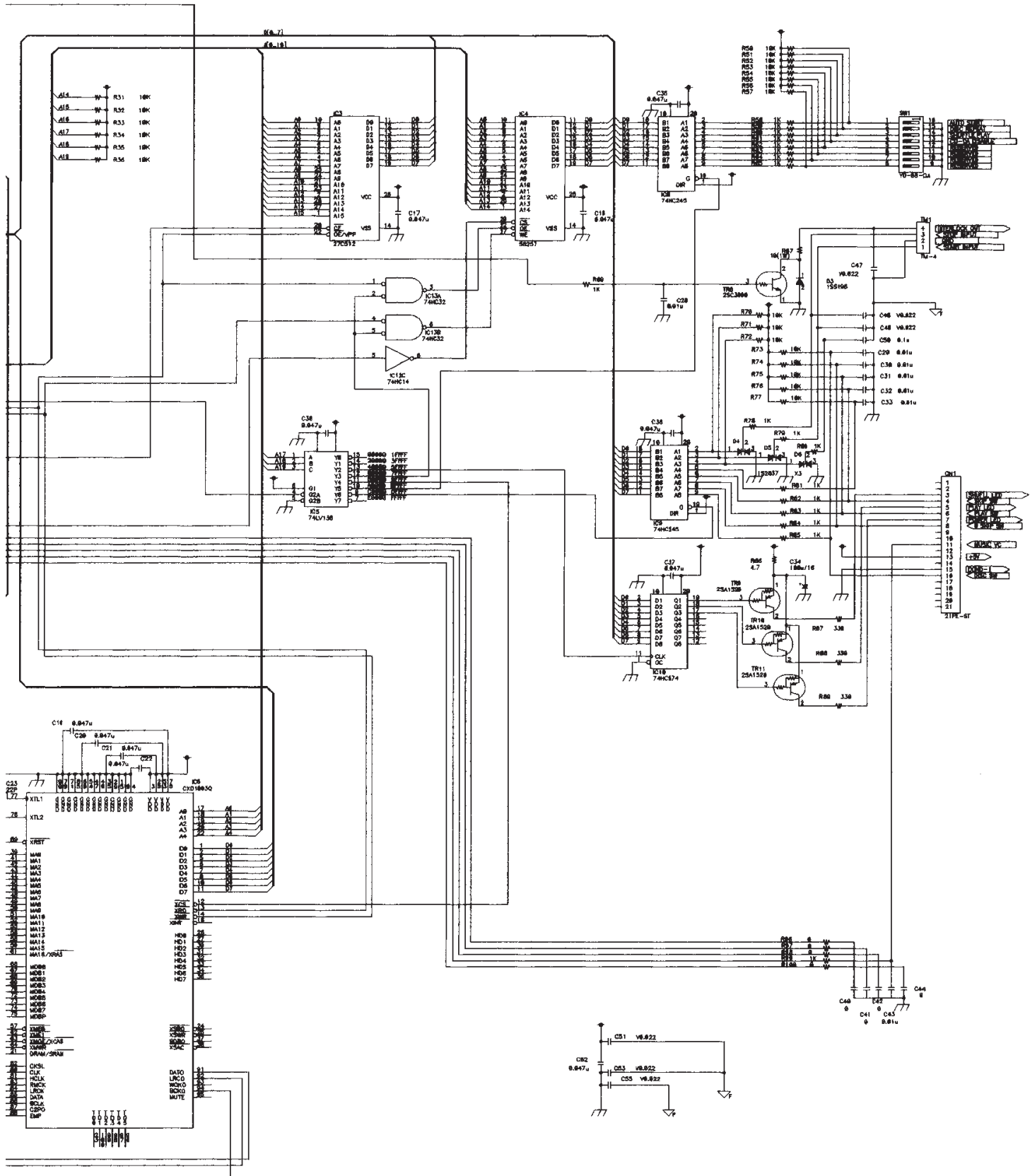
amp block diagram



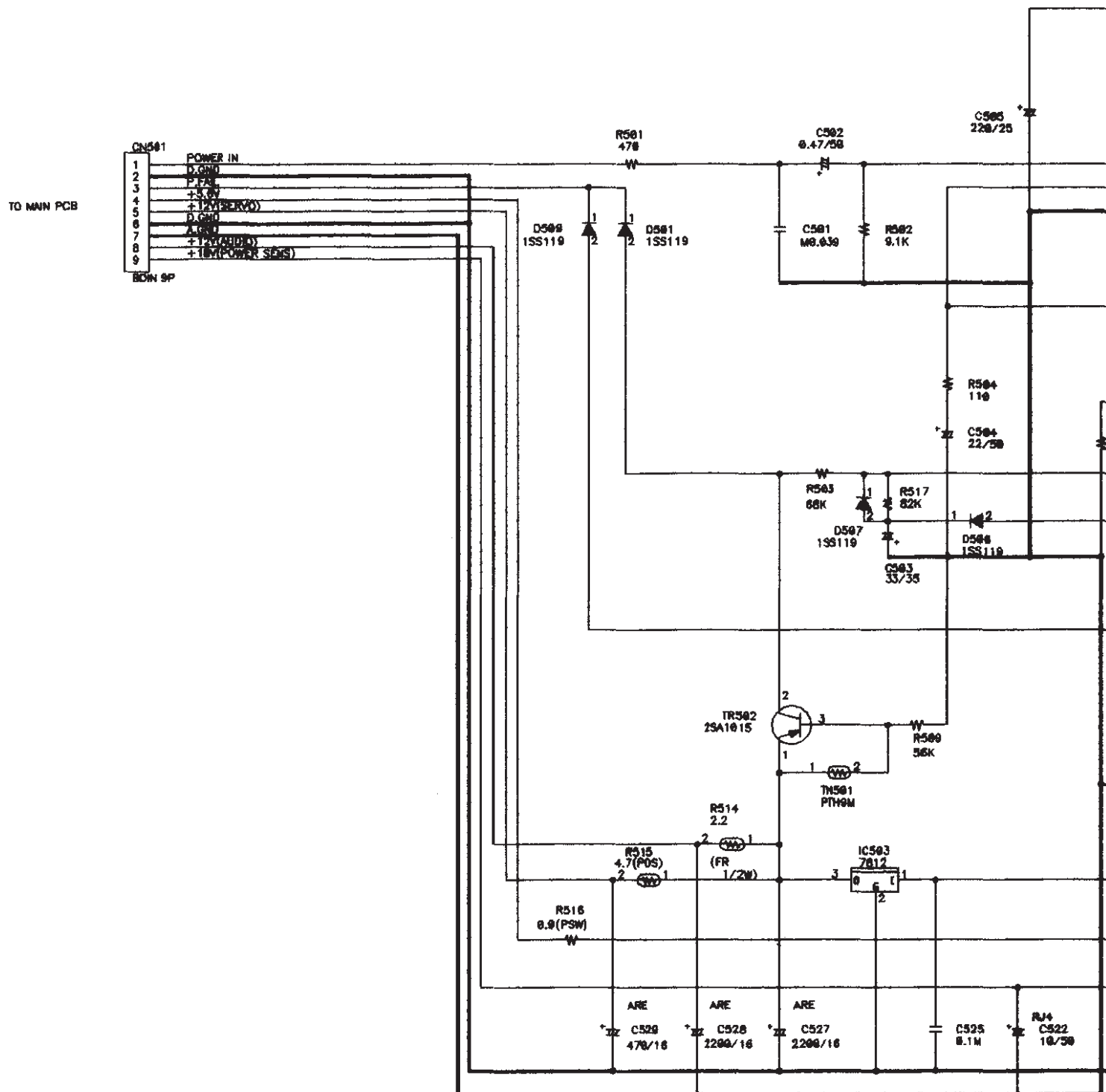


control block diagram





power amp PCB diagram



MCD-1000 complete spare parts list

No.	Description	New P/N (Silver)	Qty. Per Unit
CHASSIS			
1	Chassis (see #62)	120-0711-00	1
2	Rubber Foot	004-3001-01	5
3	Fuseholder	013-0106-00	1
4	Output Transformer	013-4117-00	1
5	Power Transformer	013-4990-00	1
6	Fuse 250V 1.6A	013-5594-00	1
7	Card Edge Spacer	014-9007-00	2
8	Accessory PCB Unit	120-8935-01	1
9	6P Connector	806-0401-06	1
10	4P Harness	820-4720-00	1
11	Output Transformer PCB Unit	120-8162-00	1
12	Plating Wire 0.6	934-0000-01	2
13	2P Harness (M)	820-8930-01	1
14	8P Harness (M)	820-8952-00	1
15	Power Transformer PCB Unit	120-8163-00	1
16	5P Post (S)	804-1004-05	1
17	3P Harness (M)	820-8929-01	1
18	POWER SW PCB Unit	120-8168-00	1
19	Power Switch	012-0036-00	1
20	2P Post (S)	804-1005-02	1
21	Rear Panel	126-0388-01	1
22	AC Inlet	013-0105-00	1
23	Cover (Accessory module)	126-0884-00	1
24	Metal housing (Accessory)	126-1122-00	1
25	9P Harness (M)	820-9757-00	1
26	Bind Small Screw NI M4X8	850-0042-50	1
27	Bind S Tight M3X5	850-0201-36	6
28	Bind S Tight M3X12	850-0201-40	2
29	Flat Head Small Screw Black M3X5	851-0005-36	2
30	Bind B Tight M3X10 with Knock	859-0322-00	4
31	Pan Head Sems SF S Tight M3X8	859-0418-00	3
32	Wire Tie	868-7100-01	2
33	Harness Assembly Grounding Wire	909-5000-71	1
34	Shorting Harness Assembly Wire	909-7006-30	1
35	Front Panel Full Assembly	121-2137-00	1
36	Front PCB Unit	120-7328-00	1
37	R 1/4W P5 101J T2	930-0121-85	1
38	R 1/4W P5 102J T2	930-0124-25	3
39	Bare Plating Wire 0.6	934-0000-01	4
40	Ceramics Condenser 50V 104Z T2	951-6002-07	4
41	Tact SW	012-0130-00	3
42	Revolving ?? (Knob)	012-0778-00	1
43	LED Spacer	016-7960-00	3
44	LED Green	701-3002-00	1
45	LED Yellow	701-3022-00	2
46	Electric Condenser RC3 16V 22M	720-9979-00	1
47	21P FE Connector	804-1300-21	1
48	Harness Assembly Earth Wire	909-4001-40	1
49	Front Panel Assembly	121-2136-00	1
50	Front Panel	126-2117-01	1
51	Front Sheet	127-0596-01	1
52	Logo Label	127-1893-01	1

MCD-1000 complete spare parts list

No.	Description	New P/N (Silver)	Qty. Per Unit
53	Display Label	127-1894-01	1
54	Power Switch Button	126-7395-01	1
55	LCD Mask	126-7649-00	1
56	Display 21P FFC	127-8007-01	1
57	Bind B Tight M2.6X8	850-0101-27	2
58	Spring Washer _2.6	860-0001-11	2
59	Escutcheon Assembly	122-0003-01	1
60	Eject Button	126-7396-00	1
61	Escutcheon	126-7643-00	1
62	Main Chassis	126-0013-02	1
63	Top Cover	126-0235-00	1
64	PCB Guide	126-0613-01	1
65	Center Chassis (R)	126-0812-01	1
66	Front Beam	126-0813-02	1
67	Mech Guide (L)	126-0814-01	1
68	Switch Bracket	126-1126-00	1
69	Tray Mask	126-7644-01	1
70	Door (R)	126-7647-00	1
71	Door (L)	126-7648-00	1
72	Button Spacer	126-8682-01	1
73	Composite Tone PCB	127-7014-01	0
74	Composite PCB	127-7052-02	1
75	Bind Small Screw M4X6	850-0001-49	2
76	Bind S Tight M3X5	850-0201-36	19
77	Bind S Tight M3X6	850-0201-37	4
78	Bind S Tight M4X6	850-0201-49	1
79	Bind B Tight M3X10 with Knock	859-0322-00	1
80	Pan Head S tight with Washer M3X8	859-0336-00	5
81	Pan Head Sems F M3X5	859-0343-00	3
82	Bind S tight M3X6 Knock chrome plated	859-0401-01	9
83	Pan Head Sems SF S tight M3X8	859-0418-00	2
84	Wire Tie	868-7100-01	1
85	Package Unit	120-6049-00	1
86	AC power cable	013-3079-00	1
87	Catalogue bag ASSEMBLY	121-7056-00	1
88	Small plastic bag for part	007-1401-00	1
89	Fuse 250V 1.6A	013-5594-00	1
90	MUZAK Warranty Card	017-0307-10	1
91	Catalogue bag	017-1403-00	1
92	Emergency Eject Pin	125-6574-01	1
93	Leaflet	127-2157-00	1
94	Barcode Label	127-0858-00	1
95	Serial Label	127-1896-40	1
96	Box	601-0118-01	1
97	Styrene Foam R	602-0050-02	1
98	Styrene Foam L	602-0051-03	1
99	Master Box	603-0030-02	1
100	Packing Sheet	609-0027-00	1
101	Main PCB Unit	120-7056-02	1
102	Main PCB	127-5050-01	1
103	ROM Decoder QT1	501-1058-00	1
104	DSP MN662724RPE_QT1	501-1066-00	1
105	CPU H8/3002 16MHZ QT1	501-4072-00	1

MCD-1000 complete spare parts list

No.	Description	New P/N (Silver)	Qty. Per Unit
106	Reset IC 51957 QT2	502-1021-00	1
107	H-CMOS HC14 QT2	502-2049-00	1
108	H-CMOS HC32 QT2	502-2060-00	2
109	H-CMOS SNHC574 QT2	502-2064-00	1
110	H-CMOS HC245A QT2	502-2065-00	2
111	74LV138 QT2	502-2169-00	1
112	D/A Converter	503-1030-00	1
113	RF AMP AN8806 QT3	503-1040-00	1
114	OP AMP 2082M QT3	503-1049-00	1
115	3 pin Regulator 77L05M QT3	503-1050-00	1
116	4CH Liner Driver 8389S QT3	503-1051-00	1
117	Motor Driver	503-1053-00	1
118	OP AMP 4580 QT3	503-1056-00	2
119	Electrical Volume IC M62429 QT3	503-1102-00	1
120	S-RAM 256K QT3	503-5025-00	2
121	TR 2SA1052 QT3	513-1008-00	2
122	TR 2SA1520 QT3	513-1015-00	4
123	TR 2SC3900 QT3	513-3022-00	6
124	D 1S2837 QT3	523-1003-00	3
125	D 1SS196 QT3	523-1007-00	8
126	ZD RD3.3MB QT3	523-2011-00	1
127	ZD 02CZ7.5Z QT3	523-2014-00	1
128	Shot key Barrier D	523-3007-00	4
129	Shot Key Barrier D QT3	523-3008-00	2
130	Crystal 16.9344MHZ QT3	533-3007-00	1
131	Ceramic Transmitor 12MHZ QT3	533-3012-00	1
132	Data Line Filter QT3	533-7071-00	1
133	Capacitor 16V 100UF QT3	543-1053-00	21
134	Capacitor 16V 100M QT3	543-1214-00	2
135	Capacitor 50V 010M QT3	543-1217-00	1
136	Capacitor 16V 100M QT3	543-1220-00	14
137	Layered Ceram. Capac. 50V 10PF QT2	552-5012-20	4
138	Layered Ceram. Capac. 50V 22PF QT2	552-5020-20	2
139	Layered Ceram. Capac. 50V 56PF QT2	552-5030-20	1
140	Layered Ceram. Capac. 50V 100PF QT2	552-5036-20	7
141	Layered Ceram. Capac. 50V 180PF QT2	552-5042-20	1
142	Layered Ceram. Capac. 50V 220PF QT2	552-5044-20	2
143	Layered Ceram. Capac. 50V 470PF QT2	552-5052-20	2
144	Layered Ceram. Capac. 50V 102K QT2	552-7060-20	6
145	Layered Ceram. Capac. 50V 222K QT2	552-7068-20	2
146	Layered Ceram. Capac. 50V 472K QT2	552-7076-20	1
147	Layered Ceram. Capac. 50V 103K QT2	552-7084-20	13
148	Layered Ceram. Capac. 50V 123 QT2	552-7086-00	1
149	Layered Ceram. Capac. 50V 223K QT2	552-7092-20	3
150	Layered Ceram. Capac. 50V 273 QT2	552-7094-20	2
151	Layered Ceram. Capac. 25V 393 QT2	552-7296-00	1
152	Layered Ceram. Capac. 25V 683K QT2	552-7299-20	1
153	Layered Ceram. Capac. 50V 473Z QT2	552-7897-20	23
154	Layered Ceram. Capac. 50V 104Z QT2	552-7901-10	18
155	Layered Ceram. Capac. 25V 154 QT2	552-8103-20	3
156	Layered Barista	552-8301-00	12
157	R1W 2R2J QT2	562-0010-00	2
158	R 1W 100J QT2	562-0026-00	1

MCD-1000 complete spare parts list

No.	Description	New P/N (Silver)	Qty. Per Unit
159	Jumper (2125) QT2	562-4001-00	11
160	R 1/10W 2R2J QT2	562-4010-00	1
161	R 1/10W 4R7J QT2	562-4018-00	1
162	R 1/10W 7R5J QT2	562-4023-00	3
163	R 1/10W 100J QT2	562-4026-00	2
164	R 1/10W 430J QT2	562-4041-00	2
165	R1/10W 750J QT2	562-4047-00	1
166	R 1/10W 101J QT2	562-4050-00	10
167	R 1/10W 221J QT2	562-4058-00	2
168	R 1/10W 331J QT2	562-4062-00	8
169	R 1/10W 471J QT2	562-4066-00	1
170	R 1/10W 511J QT2	562-4067-00	1
171	R 1/10W 681J QT2	562-4070-00	1
172	R 1/10W 751J QT2	562-4071-00	1
173	R 1/10W 102J QT2	562-4074-00	32
174	R 1/10W 162J QT2	562-4079-00	2
175	R 1/10W 182J QT2	562-4080-00	4
176	R 1/10W 242J QT2	562-4083-00	1
177	R 1/10W 272J QT2	562-4084-00	1
178	R 1/10W 332J QT2	562-4086-00	3
179	R 1/10W 472J QT2	562-4090-00	3
180	R 1/10W 682J QT2	562-4094-00	1
181	R 1/10W 103J QT2	562-4098-00	59
182	R 1/10W 183J QT2	562-4104-00	3
183	R 1/10W 223J QT2	562-4106-00	3
184	R 1/10W 273J QT2	562-4108-00	6
185	R 1/10W 333J QT2	562-4110-00	1
186	R 1/10W 393J QT2	562-4112-00	1
187	R 1/10W 473J QT2	562-4114-00	10
188	R 1/10W 563J QT2	562-4116-00	3
189	R 1/10W 104J QT2	562-4122-00	12
190	R 1/10W 124J QT2	562-4124-00	1
191	R 1/10W 154J QT2	562-4126-00	2
192	R 1/10W 184J QT2	562-4128-00	4
193	R 1/10W 224J QT2	562-4130-00	1
194	R 1/10W 244J QT2	562-4131-00	1
195	R 1/10W 274J QT2	562-4132-00	1
196	R 1/10W 155J QT2	562-4148-00	1
197	28P IC Socket	003-5305-00	1
198	8P Dip SW	012-1227-00	1
199	4P Screw Terminal	013-0765-00	1
200	4P Pin Jack	013-0834-00	1
201	Vanadium Lithium Battery	013-6520-00	1
202	Screw Terminal	013-8106-00	1
203	EP ROM w/ Software	706-7177-02	1
204	EP ROM 27C512	705-1041-00	1
205	Capacitor RB-LL 10V 101M S	720-9690-00	1
206	PPF Capacitor 100V 181J T2	724-9355-00	2
207	PPF Capacitor 100V 622J T2	724-9473-00	2
208	PPF Capacitor 100V 103J T2	724-9478-00	2
209	4P Post	800-4900-04	1
210	12P Post (M)	800-4900-12	1
211	9P Post with Base	804-0800-09	1

MCD-1000 complete spare parts list

No.	Description	New P/N (Silver)	Qty. Per Unit
212	21P FE Connector	804-1300-21	1
213	34P Flat Cable Assembly	820-9684-00	1
POWER AMP PCB			
214	Power AMP PCB Unit	120-7180-02	1
215	R 1/4W P5 101J T2	930-0121-85	3
216	R 1/4W P5 111J T2	930-0121-95	1
217	R 1/4W P5 102J T2	930-0124-25	2
218	R 1/4W P5 162J T2	930-0124-75	1
219	R 1/4W P5 182J T2	930-0124-85	1
220	R 1/4W P5 472J T2	930-0125-85	1
221	R 1/4W P5 562J T2	930-0126-05	2
222	R 1/4W P5 103J T2	930-0126-65	3
223	R 1/4W P5 243J T2	930-0127-55	1
224	R 1/4W P5 563J T2	930-0128-45	2
225	R 1/4W P5 683J T2	930-0128-65	1
226	R 1/4W P5 823J T2	930-0128-85	1
227	D S5688B	933-2000-50	2
228	Shot Key Barrier D D1NS4 T2	933-2900-10	1
229	IC Protector N70 T1	933-2900-70	1
230	Bare Plating Wire 0.6	934-0000-01	25
231	1SS119	943-2000-70	4
232	Capacitor RJ4 25V 221MX T2	951-0105-22	4
233	Capacitor RJ4 35V 101MX S1	951-0105-62	1
234	Capacitor RJ4 50V R47M T2	951-0106-22	1
235	Capacitor RJ4 50V 1M T2	951-0106-32	1
236	Capacitor RJ4 50V 3R3M T2	951-0106-52	1
237	Capacitor RJ4 50V 10M T2	951-0106-72	1
238	Ceramic Capacitor 50V 101K T2	951-5609-61	4
239	Ceramic Capacitor 50V 102K T2	951-5610-81	1
240	Miler Capacitor 100V 104K T2	952-3001-10	7
241	TR 2SA1015 Y T2	953-1000-10	1
242	TR 2SC1815 Y T2	953-1040-20	1
243	TR 2SC4113 T2	953-1043-20	1
244	Posistar	012-2018-00	1
245	PolySwitch 0.9A	012-2023-00	1
246	Posistar 4.7Ohm	012-2025-00	1
247	Micro Fuse 6.3A	013-5585-00	3
248	Heat Sink	013-6095-01	1
249	Heat Sink	013-6096-00	1
250	Heat Sink	013-6097-00	2
251	Power Inductor 221UH	013-7285-00	1
252	Power PCB Attachment Plate	126-0614-00	1
253	TR 2SA1015 Y	700-0001-00	1
254	D1SS119	701-0031-00	1
255	BD RBA-402	701-5027-00	1
256	D 5DL2CZ47A	701-5030-00	2
257	IC 3 Pin 7812	702-3091-00	1
258	Switching Regulator	702-3129-00	1
259	Power AMP IC	702-9046-00	1
260	R 1/2W P10 4R7J O	712-0017-00	1
261	R 3W P10 R22K	715-0060-00	1
262	Fuse Resistor 1/4W P10 2R2	717-0003-00	2
263	Fuse Resistor 1/4W P10 101	717-0005-00	2

MCD-1000 complete spare parts list

No.	Description	New P/N (Silver)	Qty. Per Unit
264	R 1/4W P5 362J F	719-0068-00	1
265	R 1/4W P5 562J F	719-0170-00	1
266	Capacitor ARE2J 25V 471M	721-0213-00	1
267	Capacitor ARE2J 16V 222M	721-0214-00	2
268	Capacitor RJ4 10V 102M	721-0228-10	1
269	Capacitor RJ4 35V 332M	721-0231-00	2
270	Capacitor RJ4 35V 472M	721-0231-10	2
271	2P Post (S)	804-0600-02	1
272	3P Post (S)	804-0600-03	1
273	9P Harness (M)	820-8934-00	1
274	Bind Small Screw M3X6	850-0001-37	2
275	Pan head Sems SF M3X10	859-0239-00	1
276	Bind B Tight M3X16	859-0351-00	2
277	Style Pin 0.8X33.8	868-7200-12	1
278	Harness assembly earth wire(Green14)	909-7004-60	1
279	Harness assembly (Black9)	909-7004-70	1
280	Capacitor RJ4 50V 3R3M T2	951-0106-52	1
281	Capacitor RJ4 50V 22M	951-0106-82	1
282	Capacitor RJ4 50V 33M	951-0106-92	1
283	Mylar Capacitor 50V 392J T2	952-2021-20	1
284	Mylar Capacitor 100V 104K T2	952-3001-10	1
285	4P Screw Terminal PCB Unit	120-7439-00	1
286	4P Screw Terminal	013-0742-00	1
287	Ceramic Capacitor SC 250V 472	721-9433-00	1
288	8P Post with base	804-0800-08	1
289	Harness Assembly Earth Wire	909-4001-20	1
290	Ceramic Capacitor SC 50V 104Z T2	951-6001-07	1
???	Fuse Resistor 4.7 ohm	712-0003-00	1

tone PCB

291	Tone PCB Unit	120-8120-02	1
292	R 1/4W P5 101J T2	930-0121-85	1
293	R 1/4W P5 331J T2	930-0123-05	3
294	R 1/4W P5 102J T2	930-0124-25	1
295	R 1/4W P5 103J T2	930-0126-65	1
296	R 1/4W P5 223J T2	930-0127-45	1
297	R 1/4W P5 333J T2	930-0127-85	3
298	Capacitor RJ4 35V 101MX S1	951-0105-62	2
299	Capacitor RJ4 50V 10M T2	951-0106-72	2
300	Ceramic Capacitor CC SL 50V 15K T2	951-5201-91	1
301	Mylar Capacitor (Poly. Film) 50V 102J T2	952-2019-80	1
302	Mylar Capacitor 50V 103J T2	952-2022-20	2
303	Rotary VR 104B	012-0784-00	2
304	Tone PCB attach plate	126-0618-00	1
305	OP AMP 4558	702-2081-00	1
306	9P Post with Base	804-0800-09	1
307	9P Harness(M)	820-8934-00	1
308	Bind S Tight M3X6	850-0201-37	2

MECHANISM UNIT

309	Mecha Unit	120-5072-00	1
310	Connect PCB Unit	120-7728-01	1
311	Motor Driver PD16836 QT3	503-1097-00	1

MCD-1000 complete spare parts list

No.	Description	New P/N (Silver)	Qty. Per Unit
312	Temperature Sensor LM-45 QT3	503-6001-00	1
313	Shot Key Barrier D QT3	523-3009-00	4
314	6P FFC Connector	533-6002-06	1
315	14P FFC Connector	533-6007-14	1
316	17P FFC Connector	533-6007-17	1
317	Layered Ceram. Capac. 50V 100PF QT2	552-5036-20	1
318	Layered Ceram. Capac. 50V 104Z QT2	552-7901-10	12
319	R1/2W 0J QT2	562-1001-00	47
320	R1/2W 1R0J QT2	562-1002-00	3
321	R 1/10W 4R7J QT2	562-4018-00	2
322	R1/10W 750J QT2	562-4047-00	1
323	R 1/10W 910J QT2	562-4049-00	1
324	R 1/10W 121J QT2	562-4052-00	2
325	R 1/10W 301J QT2	562-4061-00	1
326	R 1/10W 102J QT2	562-4074-00	2
327	R 1/10W 362J QT2	562-4087-00	1
328	R 1/10W 103J QT2	562-4098-00	1
329	R 1/10W 105J QT2	562-4146-00	1
330	Tact SW	012-0125-00	1
331	Photo Interapter ASSEMBLY	121-3281-02	1
332	Photo Interapter Case	126-8555-04	1
333	Photo Interapter	701-9080-00	2
334	Capacitor RJ4 16V 220M	721-0228-80	1
335	34P Box Pin Header	809-0194-00	1
336	Tray ASSEMBLY	121-3336-05	1
337	Mecha Attach Metal Fitting L ASSEMBLY	121-3482-01	1
338	Mecha Attach Metal Fitting R ASSEMBLY	121-3483-01	1
339	Main Chassis ASSEMBLY	121-5142-00	1
340	Loading Motor ASSEMBLY	121-5814-00	1
341	Loading Motor	125-8330-00	1
342	Motor Pinion	126-8618-01	1
343	Main Chassis	126-8611-04	1
344	Flap Rack	126-8613-02	1
345	Eject Lever	126-8614-00	1
346	Loading Gear 1	126-8615-00	1
347	Loading Gear 2	126-8616-00	1
348	Loading Gear 3	126-8617-00	1
349	Cushion	127-3317-00	2
350	Pan head Small Screw M1.7X2.5	859-0437-00	2
351	Mecha Chassis FULL ASSEMBLY	121-5144-00	1
352	Drive Gear 2 ASSEMBLY	121-5769-01	1
353	Mecha Chassis ASSEMBLY	121-5770-02	1
354	Laser Pick Up ASSEMBLY	121-5771-00	1
355	Laser Pick Up	013-9918-00	1
356	Rack Assembly	121-5761-05	1
357	Step Screw	859-0428-01	1
358	Sled Motor FULL ASSEMBLY	121-5818-00	1
359	Connector S PCB Unit	120-7729-00	1
360	6P FFC Connector	533-6002-06	1
361	Layered Ceram. Capac. 50V 104Z QT2	552-7901-10	1
362	Sled Motor ASSEMBLY	121-5813-00	1
363	Sled Motor	125-8313-00	1
364	Motor Attachment Plate	126-5504-00	1

MCD-1000 complete spare parts list

No.	Description	New P/N (Silver)	Qty. Per Unit
365	Pinion Gear	126-8634-01	1
366	Pan Head Small Screw M1.7X2	859-0438-00	2
367	Bind Small Screw M2.6X4	850-0001-24	2
368	Pick Up Shaft	125-6686-00	1
369	Pick Up Shaft 2	125-6694-00	1
370	Spindle Motor	125-8344-00	1
371	Damper H	126-8362-00	4
372	Shaft Holder	126-8570-03	4
373	Sus Chassis	126-8619-01	1
374	Drive Gear	126-8620-00	1
375	SPM Spacer	126-8633-01	1
376	Bind Small Screw M2.6X4	850-0001-24	2
377	Step Screw (H)	859-0431-00	4
378	Bind Small Screw M2X8	859-0443-00	3
379	Bind Small Screw M2.6X5	859-0457-00	4
380	14P FFC	908-0904-50	1
381	17P FFC	908-0904-80	1
382	Chucking Pulley ASSEMBLY	121-5767-02	1
383	Lever ASSEMBLY	121-5794-03	1
384	Twisted Spring	125-0379-02	1
385	Lever	126-8579-00	1
386	Top Case	126-5527-00	1
387	Bottom Plate	126-5531-00	1
388	Pulley Plate	126-8612-03	1
389	Mecha Number Label D	127-0807-02	1
390	Composite M PCB	127-7048-01	1
391	Bind Small Screw M3X5	850-0001-36	4
392	Bind B Tight M2.6X8	850-0101-27	2
393	Bind S Tight M2.6X8	850-0201-27	4
394	Lock Screw	859-0400-01	2
395	Bind Small Screw M2X4 Lock	859-0453-00	2
396	6P FFC	908-0904-91	1

MCD-1000 spare parts list with both colors

Description	Parts No.	Description	Parts No.
MAIN CHASSIS UNIT			
Main PCB Unit	120-7056-02	9P Harness(M)	820-9757-00
34P Flat Cable Assembly	820-9684-00	Wire w/Harnesses	909-7006-30
EPROM with software	706-7177-02	Earth Lead w/ Harness	909-5000-71
Main Chassis	126-0013-02	Fuse 250V 1.6A	013-5594-00
Power Transformer	013-4990-00	Screw Bind S-tight M3X5	850-0201-36
Power Trans PCB Unit	120-8163-00	Screw Bind M4X6	850-0001-49
Output Transformer	013-4117-00	Screw Bind S-tight M3X6	850-0201-37
Output Trans PCB Unit	120-8162-00	Screw Bind S-tight M4X6	850-0201-49
Center Chassis	126-0812-01	Screw Pan w/ Washer S-tight M3X8	859-0336-00
Mecha. Guide	126-0814-01	Screw Pan SF S-tight M3X8	859-0418-00
Front Beam	126-0813-02	Screw Bind S-tight M3X6 Unnichromate	859-0401-01
PCB Guide	126-0613-01	Screw Pan S M3X5	859-0343-00
Switch Bracket	126-1126-00	Spring Washer _O2.6	860-0001-11
Switch Connecting Rod	126-8682-01	Screw Bind B-tight 2.6X8	850-0101-27
Power Switch PCB Unit	120-8168-00	Screw Bind B-tight 3X10 Knock	859-0322-00
UL Code Clamper	868-7200-05	Screw Bind S-tight 3X12	850-0201-40
Rubber Foot	004-3001-01	Screw Flat M3X5 Black	851-0005-36
Card Edge Spacer	014-9007-00	Flat Washer 4X10X0.8	860-3122-01
Top Cover: ivory	126-0223-01	Screw Bind Ni M4X8	850-0042-50
Top Cover: silver	126-0235-00	Wire tie	868-7100-01
Serial Label	127-1896-31	Eject Button: silver	126-7396-00
Door L: ivory	126-7706-00	Escutcheon: silver	126-7643-00
Door L: silver	126-7648-00	Main Component Unit: silver	120-0711-01
Door R: ivory	126-7702-03	Front Panel Full Assembly: silver	121-2137-01
Door R: silver	126 7647-00	Escutcheon Assembly: silver	122-0003-01
Mechanism Unit	120-5072-00	Front Panel Assembly: silver	121-2136-01
Front Panel: ivory	126-2063-06		
Front Panel: silver	126-2117-00	MECHANISM UNIT	
Logo Label: ivory	127-1893-00	Mechanism Chassis Assembly	121-5770-02
Logo Label: silver	127-1893-01	Drive Gear 2 Assembly	121-5769-01
Display Label: ivory	127-1894-00	Drive Gear 1	126-8620-00
Display Label: silver	127-1894-01	Spindle Motor	125-8344-00
LCD Mask: ivory	126-7703-01	SPM Spacer	126-8633-01
LCD Mask: silver	126-7649-00	Sled Motor	125-8313-00
Front Sheet: ivory	127-0596-00	Pinion Gear	126-8634-01
Front Sheet: silver	127-0596-01	Motor Installing Plate	126-5504-00
Switch Button: ivory	126-7395-00	Pickup Shaft	125-6686-00
Switch button: silver	126-7395-01	Pickup Shaft 2	125-6694-00
Front PCB Unit	120-7328-00	Shaft Holder	126-8570-02
21P FCC	127-8007-01	Laser Pickup Assembly	121-5771-00
Escutcheon Assembly	122-0003-00	Rack Assembly	121-5761-05
Tray Mask: ivory	126-7644-00	Laser Pickup	013-9918-00
Tray Mask: silver	126-7644-01	Shoulder Screw	859-0428-01
Rear Panel	121-0126-01	17P Flat Flexible Cable	908-0904-80
Power Amp PCB Unit	120-7180-02	14P Flat Flexible Cable	908-0904-50
4P Screw Terminal PCB Unit	120-7439-00	6P Flat Flexible Cable	908-0904-91
Tone PCB Unit	120-8120-02	Sub Chassis	126-8619-01
ACC PCB Unit	120-8935-01	Damper H	126-8362-00
ACC Mount Plate	126-1122-00	Main Chassis	126-8611-04
3-in-1 Inlet	013-0105-00	Loading Motor	125-8330-00
Cartridge	013-0106-00	Motor Pinion	126-8618-01
Cover(BOSE)	126-0884-00	Eject Lever	126-8614-00
		Flap Rack	126-8613-02

MCD-1000 spare parts list with both colors

Description	Parts No.
Loading Gear 1	126-8615-00
Loading Gear 2	126-8616-00
Loading Gear 3	126-8617-00
Pulley Plate	126-8612-03
Chucking Pulley Assembly	121-5767-00
Tray Assembly	121-3336-05
Cushion 2	127-3317-00
Top Case	126-5527-00
Lever Assembly	121-5794-03
Connect PCB Unit	120-7728-01
Bottom Plate	126-5531-00
Mecha. Mount Plate L Assembly	121-3482-01
Mecha. Mount Plate R Assembly	121-3483-01
Mecha. Number Label D	127-0807-02
Shoulder Screw (H)	859-0431-00
Bind Screw M2.6X4	850-0001-24
Bind Screw M2.6X5	859-0457-00
Bind Screw M2X8	859-0443-00
Pan Screw Black M1.7X2	859-0438-00
Pan Screw Black M1.7X2.5	859-0437-00
Bind B Tight M2.6X8	850-0101-27
Bind S Tight M2.6X8	850-0201-27
Bind Screw M2X4	859-0453-00
Bind Screw M3X5	850-0001-36
Lock Screw	859-0400-01

